

LEXANTM COPOLYMER EXL9330S

REGION ASIA

DESCRIPTION

Opaque PC-Siloxane copolymer with excellent processability. UV stabilized. UL rated V-0/5VA/CTI-PLC-2. Available in limited colors; please contact your SABIC IP representative

TYPICAL PROPERTY VALUES

Revision 20230607

RNCEHANICAL *** TRYPICAL VALUES UNITS RESTMETHOS MECHANICAL *** *** <th></th> <th></th> <th></th> <th></th>				
Tensile Stress, bird, Type I, 50 mm/min 99 MPa ASIM D638 Tensile Strain, Juk, Type I, 50 mm/min 6 x8 ASIM D638 Tensile Strain, Juk, Type I, 50 mm/min 100 x8 ASIM D638 Tensile Strain, Juk, Type I, 50 mm/min 100 x8 ASIM D638 Tensile Strain, Juk, Type I, 50 mm/min 210 MPa ASIM D638 Tensile Strain, Juk, Type I, 50 mm/min 210 MPa ASIM D638 Flexural Modulus, 1.3 mm/min, 50 mm span 2150 MPa ASIM D709 Tensile Strain, Juk Tyme, 50 mm/min 2150 MPa D50 527 Tensile Strain, Juk Tyme, 150 mm/min 6 x8 D50 527 Tensile Strain, Juk Jo mm/min 100 x8 D50 527 Tensile Strain, Juk Jo mm/min 100 x8 D50 527 Tensile Strain, Juk Jo mm/min 100 x8 D50 527 Tensile Strain, Juk Jo mm/min 100 x8 D50 527 Tensile Strain, Juk Jo mm/min 100 x8 D50 527 Tensile Strain, Juk Jo mm/min 100 x8	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Tensile Stress, brk, Type I, 50 mm/min 58 MPa ASTM D638 Tensile Strain, Juk, Type I, 50 mm/min 6 % ASTM D638 Tensile Modulus, 50 mm/min 2150 MPa ASTM D638 Flexural Stress, Jul, 1.3 mm/min, 50 mm span 86 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 99 MPa SO 527 Tensile Stress, Jul, 50 mm/min 58 MPa SO 527 Tensile Stress, break, 50 mm/min 6 \$ SO 527 Tensile Stress, break, 50 mm/min 100 \$ SO 527 Tensile Stresin, break, 50 mm/min 6 \$ SO 527 Tensile Stresin, break, 50 mm/min 100 % SO 527 Tensile Stresin, break, 50 mm/min 6 \$ SO 527 Tensile Stresin, break, 50 mm/min 86 MPa SO 527 Tensile Stresin, break, 50 mm/min 80 MPa SO 527 Tensile Stresin, break, 50 mm/min 80 MPa SO 178 Tensile Stresin, break, 50 mm/min SO 527 SO 527 <t< td=""><td>MECHANICAL (1)</td><td></td><td></td><td></td></t<>	MECHANICAL (1)			
Tensile Strain, yid. Type I, 50 mm/min 6 % ASTM D638 Tensile Strain, brk, Type I, 50 mm/min 100 % ASTM D638 Tensile Modulus, 50 mm/min 2150 MPa ASTM D638 Flexural Modulus, 1.3 mm/min, 50 mm span 86 MPa ASTM D679 Flexural Modulus, 1.3 mm/min, 50 mm span 2150 MPa ASTM D790 Tensile Stress, yield, 50 mm/min 59 MPa 80 527 Tensile Stress, Dreak, 50 mm/min 100 % 80 527 Tensile Stress, John, break, 50 mm/min 100 % 80 527 Tensile Stress, yield, 2 mm/min 100 % 80 527 Tensile Stress, yield, 2 mm/min 100 % 80 527 Tensile Stress, yield, 2 mm/min 100 % 80 527 Tensile Stress, yield, 2 mm/min 100 % 80 527 Tensile Stress, yield, 2 mm/min 100 % 80 527 Tensile Stress, yield, 2 mm/min 100 % 80 527 Tensile Stress, yield, 2 mm/min 81 80 178 80 178	Tensile Stress, yld, Type I, 50 mm/min	59	MPa	ASTM D638
Tensile Strain, brk. Type i. 50 mm/min 100 % ASTM D638 Tensile Modulus, 50 mm/min 2150 MPa ASTM D638 Flexural Modulus, 1.3 mm/min, 50 mm span 2150 MPa ASTM D790 Elecural Modulus, 1.3 mm/min, 50 mm span 2150 MPa ASTM D790 Tensile Stress, yield, 50 mm/min 59 MPa ISO 527 Tensile Stress, break, 50 mm/min 100 % ISO 527 Tensile Stress, break, 50 mm/min 100 % ISO 527 Tensile Modulus, 1 mm/min 100 % ISO 527 Tensile Modulus, 1 mm/min 2150 MPa ISO 527 Tensile Modulus, 1 mm/min 2150 MPa ISO 527 Tensile Modulus, 1 mm/min 2150 MPa ISO 178 Elecural Modulus, 2 mm/min 2150 MPa ISO 178 Elecural Modulus, 2 mm/min 2150 MPa ASTM D256 Elecural Modulus, 2 mm/min 2150 MPa ASTM D256 Izear James Mineral Modulus, 2 mm/min 2150 MPa ASTM D256	Tensile Stress, brk, Type I, 50 mm/min	58	MPa	ASTM D638
Tensile Modulus, 90 mm/min 2150 MPa ASTM D638 Flexural Stress, yld, 1.3 mm/min, 50 mm span 86 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 2150 MPa ASTM D790 Tensile Stress, yeld, 50 mm/min 59 MPa SO 527 Tensile Stress, break, 50 mm/min 6 % SO 527 Tensile Strain, yeld, 50 mm/min 100 % SO 527 Tensile Strain, break, 50 mm/min 100 % SO 527 Tensile Strain, break, 50 mm/min 100 % SO 527 Tensile Strain, break, 50 mm/min 100 % SO 527 Tensile Strain, break, 50 mm/min 2150 MPa SO 527 Tensile Strain, piede, 50 mm/min 8 SO 527 SO 527 Tensile Strain, piede, 50 mm/min 8 SO 527 SO 527 Tensile Strain, piede, 50 mm/min 8 SO 527 SO 527 Tensile Strain, piede, 50 mm/min 8 SO 178 SO 178 Beruard Strain, piede, 50 mm/min 8 SO 178 SO 178	Tensile Strain, yld, Type I, 50 mm/min	6	%	ASTM D638
Flexural Stress, yield, 1.3 mm/min, 50 mm span 86 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 2150 MPa ASTM D790 Tensile Stress, yield, 50 mm/min 59 MPa 150 527 Tensile Stress, break, 50 mm/min 6 8 150 527 Tensile Strain, yield, 50 mm/min 100 % 505 27 Tensile Strain, break, 50 mm/min 2150 MPa 150 527 Flexural Stress, yield, 2 mm/min 86 MPa 150 527 Flexural Modulus, 2 mm/min 2150 MPa 150 178 Flexural Modulus, 2 mm/min 6 MPa 150 178 Flexural Modulus, 2 mm/min 2150 MPa ASTM D256 Flexural Modulus, 2 mm/min 70 J/m ASTM D256 Izod Impact, notched, 23°C 50 J/m ASTM D256 Izod Impact, notched, 50°C 8 J/m ASTM D256 Izod Impact, unotched 80°10°3 -22°C 75 J/m S0 180/14 Izod Impact, unotched 80°10°3 -22°C 50 J/m ISO 180/14	Tensile Strain, brk, Type I, 50 mm/min	100	%	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span 2150 MPa ASTM D790 Tensile Stress, yield, 50 mm/min 59 MPa ISO 527 Tensile Stress, break, 50 mm/min 58 MPa ISO 527 Tensile Strain, break, 50 mm/min 6 % ISO 527 Tensile Strain, break, 50 mm/min 100 % ISO 527 Tensile Modulus, 1 mm/min 2150 MPa ISO 178 Flexural Stress, yield, 2 mm/min 86 MPa ISO 178 Flexural Modulus, 2 mm/min 2150 MPa ISO 178 Tensile Stress, yield, 2 mm/min 86 MPa ISO 178 Invact Time W Wa ISO 178 Elecural Modulus, 2 mm/min 86 MPa ISO 178 Invact Time W Wa SO 178 Invact Time W MPa ASTM D256 Invact Modulus, 2 mm/min ASTM D256 MPa ASTM D256 Invact Modulus, 2 mm/min M MS ASTM D256 Invact Man, 10 M M MSTM D256<	Tensile Modulus, 50 mm/min	2150	MPa	ASTM D638
Tensile Stress, yield, 50 mm/min 59 MPa ISO 527 Tensile Strain, yield, 50 mm/min 6 % 50 527 Tensile Strain, yield, 50 mm/min 100 % ISO 527 Tensile Strain, pieak, 50 mm/min 2150 MPa ISO 527 Tensile Modulus, 1 mm/min 2150 MPa ISO 527 Flexural Stress, yield, 2 mm/min 86 MPa ISO 178 Flexural Modulus, 2 mm/min 86 MPa ISO 178 IMPACT ⁽¹⁾ 350 178 J/m ASTM 0256 Izod Impact, notched, 23°C 700 J/m ASTM 0256 Izod Impact, notched, 30°C 350 J/m ASTM 0256 Izod Impact, notched, 30°C 88 J/m ASTM 0256 Izod Impact, notched, 80°10°3 +23°C NB J/m ASTM 0256 Izod Impact, notched, 80°10°3 +23°C NB J/m SO 180/14 Izod Impact, notched, 80°10°3 +23°C NB J/m SO 180/14 Izod Impact, notched, 80°10°3 +23°C NB J/m SO 180/14 Izod Impact, no	Flexural Stress, yld, 1.3 mm/min, 50 mm span	86	MPa	ASTM D790
Tensile Streis, break, 50 mm/min 58 MPa SO 527 Tensile Strain, yield, 50 mm/min 6 % SO 527 Tensile Strain, break, 50 mm/min 100 % SO 527 Tensile Modulus, 1 mm/min 2150 MPa SO 527 Flexural Modulus, 2 mm/min 86 MPa SO 178 Flexural Modulus, 2 mm/min 2150 MPa SO 178 Impact, 100 J/m ASTM D256 Collection Izod Impact, notched, 30°C 550 J/m ASTM D256 Izod Impact, notched, 50°C NB I/m² ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB I/m² SO 180/10 Izod Impact, unnotched 80°10°3 +23°C NB I/m² SO 180/10 Izod Impact, unnotched 80°10°3 +23°C NB I/m² SO 180/10 Izod Impact, unnotched 80°10°3 +23°C NB I/m² SO 180/10 Izod Impact, unnotched 80°10°3 +23°C NB I/m² SO 180/10 Izod Impact, unnotched 80°10°3 +23°C NB I/m² SO 180/10 <	Flexural Modulus, 1.3 mm/min, 50 mm span	2150	MPa	ASTM D790
Tensile Strain, yield, 50 mm/min 6 % SO 527 Tensile Strain, break, 50 mm/min 100 % SO 527 Tensile Modulus, 1 mm/min 2150 MPa ISO 527 Flexural Stress, yield, 2 mm/min 86 MPa ISO 178 Impact, notthed, 23°C Um/min ASTM D256 Ized Impact, notched, 30°C 550 JJm ASTM D256 Ized Impact, notched, 30°C 450 JJm ASTM D256 Ized Impact, unnotched 80°10°3 +32°C NB IJm² SO 180/10 Ized Impact, unnotched 80°10°3 +30°C NB IJm² ISO 180/10 Ized Impact, notched 80°10°3 +30°C 75 IJm² ISO 180/10 Ized Impact, notched 80°10°3 +30°C 75 IJm² ISO 180/10 Ized Impact, notched 80°10°3 +30°C 75 IJm² ISO 180/10 Ized Impact, notched 80°10°3 +30°C 70 IJm² ISO 180/10 Ized Impact, notched 80°10°3 +30°C 70 IJm² ISO 180/10 Charpy 30°C, Vnotch Edgew 80°10°3 sp=62mm 70 IJm² IJm² ISO 179	Tensile Stress, yield, 50 mm/min	59	MPa	ISO 527
Tensile Strain, break, 50 mm/min 100 % ISO 527 Tensile Modulus, 1 mm/min 2150 MPa ISO 527 Flexural Stress, yield, 2 mm/min 86 MPa ISO 178 IMPACT ⁽¹⁾ USO 178 ISO 178 IMPACT ⁽¹⁾ USO 178 ISO 178 Izod Impact, notched, 23°C 700 J/m ASTM D256 Izod Impact, notched, 30°C 550 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB I/m² ISO 180/110 Izod Impact, unnotched 80°10°3 +23°C NB I/m² ISO 180/114 Izod Impact, unotched 80°10°3 +23°C NB I/m² ISO 180/114 Izod Impact, unotched 80°10°3 +23°C NB I/m² ISO 180/114 Izod Impact, unotched 80°10°3 +23°C NB I/m² ISO 180/114 Izod Impact, unotched 80°10°3 +23°C NB I/m² ISO 180/114 Izod Impact, unotched 80°10°3 spe62mm 70 I/m² ISO 180/114 Izod Impact, unotched 80°10°3 spe62mm NB I/m² ISO 179/124 Charpy 30°C	Tensile Stress, break, 50 mm/min	58	MPa	ISO 527
Fensile Modulus, 1 mm/min 2150 MPa SO 527 Flexural Stress, yield, 2 mm/min 86 MPa ISO 178 IMPACT (¹) 150 MPa 150 178 IMPACT (¹) 150 MPa 150 178 IMPACT (¹) 150 17m ASTM D256 Izod Impact, notched, 30°C 550 17m ASTM D256 Izod Impact, notched, 50°C 450 17m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C 18 I/m² 150 80/110 Izod Impact, notched 80°10°3 +23°C 88 I/m² 150 180/114 Izod Impact, notched 80°10°3 +23°C 75 I/m² 150 180/114 Izod Impact, notched 80°10°3 +23°C 75 I/m² 150 180/114 Izod Impact, notched 80°10°3 sp=62mm 70 I/m² 150 180/114 Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 70 I/m² 150 179/11e Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm 18 I/m² 150 179/11e Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm 18 I/m² 150 179/11e	Tensile Strain, yield, 50 mm/min	6	%	ISO 527
Flexural Stress, yield, 2 mm/min 86 MPa ISO 178 Flexural Modulus, 2 mm/min 2150 MPa ISO 178 IMPACT (*)* Use of Impact, notched, 23°C 700 J/m ASTM D256 Izod Impact, notched, -30°C 550 J/m ASTM D256 Izod Impact, notched, 50°C 450 J/m ASTM D256 Izod Impact, unnotched 80°10°3 + 23°C NB I/m² ISO 180/1U Izod Impact, notched 80°10°3 + 23°C NB I/m² ISO 180/1U Izod Impact, notched 80°10°3 + 23°C NB I/m² ISO 180/1U Izod Impact, notched 80°10°3 + 23°C 75 I/m² ISO 180/1A Izod Impact, notched 80°10°3 sp=62mm 70 I/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 70 I/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB I/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB I/m²	Tensile Strain, break, 50 mm/min	100	%	ISO 527
Flexural Modulus, 2 mm/min 2150 MPa ISO 178 IMPACT (¹) ASTM D256 Izod Impact, notched, 23°C 550 J/m ASTM D256 ASTM D256 Izod Impact, notched, 50°C 450 J/m² ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB Id/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C NB Id/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 75 Id/m² ISO 180/10 Izod Impact, notched 80°10°3 sp-62mm 70 Id/m² ISO 180/10 Charpy 23°C, V-notch Edgew 80°10°3 sp-62mm 70 Id/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp-62mm NB Id/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp-62mm NB Id/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp-62mm NB Id/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp-62mm NB Id/m² ISO 179/1eA HDT, 0.45 MPa, 3.2 mm, unannea	Tensile Modulus, 1 mm/min	2150	MPa	ISO 527
IMPACT (¹) Izod Impact, notched, 23°C 700 J/m ASTM D256 Izod Impact, notched, -30°C 550 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB Izod Mmact, unnotched 80°10°3 +23°C S0 180/1U Izod Impact, notched 80°10°3 +23°C 75 Izod Mmact, notched 80°10°3 +23°C Iso 180/1A Izod Impact, notched 80°10°3 +23°C 50 Iz/m² Iso 180/1A Izod Impact, notched 80°10°3 +23°C 75 Izod Mmact, notched 80°10°3 +23°C Iso 180/1A Izod Impact, notched 80°10°3 sp=62mm 70 Izod Mmact, notched 80°10°3 sp=62mm Iso 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm NB Izom 2 Iso 179/1eA Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB Izom 2 Iso 179/1eA Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB Izom 2 Iso 179/1eA THERMAL (¹) Yicat Softening Temp, Rate 8/50 147 °C ASTM D648 HDT, 0.45 MPa, 3.2 mm, unannealed 126 °C ASTM D648	Flexural Stress, yield, 2 mm/min	86	MPa	ISO 178
Izod Impact, notched, 23°C 700 J/m ASTM D256 Izod Impact, notched, -30°C 550 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C MB Iz/m² ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB Iz/m² ISO 180/1U Izod Impact, notched 80°10°3 +23°C NB Iz/m² ISO 180/1U Izod Impact, notched 80°10°3 +23°C 75 Iz/m² ISO 180/1A Izod Impact, notched 80°10°3 +23°C 50 Iz/m² ISO 180/1A Izod Impact, notched 80°10°3 +23°C 50 Iz/m² ISO 180/1A Izod Impact, notched 80°10°3 +23°C 50 Iz/m² ISO 180/1A Izod Impact, notched 80°10°3 sp=62mm 70 Iz/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 70 Iz/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB Iz/m² IX/m² ISO 179/1eU Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB Iz/m² 8 IX/m² IX/m² IX/m² IX/m² IX/m² IX/m² IX/m² IX/m² <td>Flexural Modulus, 2 mm/min</td> <td>2150</td> <td>MPa</td> <td>ISO 178</td>	Flexural Modulus, 2 mm/min	2150	MPa	ISO 178
Sod Impact, notched, 30°C S50 J/m ASTM D256 Izod Impact, notched, 50°C 450 J/m ASTM D256 Izod Impact, unnotched 80°10°3 +23°C NB Izod Impact, unnotched 80°10°3 +30°C NB Izod Impact, unnotched 80°10°3 +30°C NB Izod Impact, unnotched 80°10°3 +30°C NB Izod Impact, notched 80°10°3 +30°C NB Izod Impact, notched 80°10°3 +30°C To S00 NB Izod Impact, notched 80°10°3 sp=62mm To S00 NB Izod Impact, notched 80°10°3 sp=62mm NB Izod Imp	IMPACT (1)			
Izad Impact, notched, -50°C 450 J/m ASTM D256 Izad Impact, unnotched 80°10°3 +23°C NB kJ/m² SO 180/1U Izad Impact, unnotched 80°10°3 -30°C NB kJ/m² SO 180/1U Izad Impact, notched 80°10°3 -30°C 75 kJ/m² SO 180/1A Izad Impact, notched 80°10°3 -30°C 50 kJ/m² SO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 70 kJ/m² SO 179/1eA Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² SO 179/1eU THERMAL '1' Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - EC 60695-10-2 </td <td>Izod Impact, notched, 23°C</td> <td>700</td> <td>J/m</td> <td>ASTM D256</td>	Izod Impact, notched, 23°C	700	J/m	ASTM D256
Izod Impact, unnotched 80°10°3 +23°C NB NB kl/m² ISO 180/1U Izod Impact, unnotched 80°10°3 -30°C 75 kl/m² ISO 180/1A Izod Impact, notched 80°10°3 -23°C 50 80/1A 150 180/1A Izod Impact, notched 80°10°3 -30°C 50 kl/m² ISO 180/1A Izod Impact, notched 80°10°3 sp=62mm 70 kl/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 70 kl/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kl/m² ISO 179/1eA Charpy 30°C, Unnotch Edgew 80°10°3 sp=62mm NB kl/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kl/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kl/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB Rose R	Izod Impact, notched, -30°C	550	J/m	ASTM D256
Izod Impact, unnotched 80°10°3 -30°C NB KJ/m² ISO 180/1U Izod Impact, notched 80°10°3 +23°C 75 KJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 50 KJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 70 KJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB KJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB KJ/m² ISO 179/1eU THERMAL (¹) Vicat Softening Temp, Rate B/50 147 °C ASTM D648 HDT, 1.82 MPa, 3.2 mm, unannealed 126 °C ASTM D648 BBII Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Izod Impact, notched, -50°C	450	J/m	ASTM D256
Izod Impact, notched 80*10*3 +23°C 75 kJ/m² ISO 180/1A Izod Impact, notched 80*10*3 -30°C 50 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm 70 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm 50 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹) Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 1.82 MPa, 3.2 mm, unannealed 126 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Izod Impact, unnotched 80*10*3 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*3·30°C 50 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm 70 kJ/m² ISO 179/1eA Charpy 30°C, V-notch Edgew 80*10*3 sp=62mm 50 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹) Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 139 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Izod Impact, unnotched 80*10*3 -30°C	NB	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm 70 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm 50 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL ⁽¹⁾ Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 139 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C + /- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Izod Impact, notched 80*10*3 +23°C	75	kJ/m²	ISO 180/1A
Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm 50 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹¹) Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 139 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Izod Impact, notched 80*10*3 -30°C	50	kJ/m²	ISO 180/1A
Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹) Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 139 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	70	kJ/m²	ISO 179/1eA
Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (¹) Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 139 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	50	kJ/m²	ISO 179/1eA
THERMAL (1) Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 139 °C ASTM D648 HDT, 1.82 MPa, 3.2 mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
Vicat Softening Temp, Rate B/50 147 °C ASTM D1525 HDT, 0.45 MPa, 3.2 mm, unannealed 139 °C ASTM D648 HDT, 1.82 MPa, 3.2 mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Charpy -30°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
HDT, 0.45 MPa, 3.2 mm, unannealed 139 °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	THERMAL (1)			
HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D648 Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	Vicat Softening Temp, Rate B/50	147	°C	ASTM D1525
Ball Pressure Test, 125°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	HDT, 0.45 MPa, 3.2 mm, unannealed	139	°C	ASTM D648
Vicat Softening Temp, Rate B/50 145 °C ISO 306 Vicat Softening Temp, Rate B/120 147 °C ISO 306	HDT, 1.82 MPa, 3.2mm, unannealed	126	°C	ASTM D648
Vicat Softening Temp, Rate B/120 147 °C ISO 306	Ball Pressure Test, 125°C +/- 2°C	PASSES	-	IEC 60695-10-2
	Vicat Softening Temp, Rate B/50	145	°C	ISO 306
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100 mm 139 °C ISO 75/Be	Vicat Softening Temp, Rate B/120	147	°C	ISO 306
	HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	139	°C	ISO 75/Be



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	126	°C	ISO 75/Af
Relative Temp Index, Elec (2)	125	°C	UL 746B
Relative Temp Index, Mech w/impact (2)	110	°C	UL 746B
Relative Temp Index, Mech w/o impact (2)	125	°C	UL 746B
PHYSICAL (1)			
Specific Gravity	1.24	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm ⁽³⁾	0.4 – 0.8	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm (3)	0.4 – 0.8	%	SABIC method
Melt Flow Rate, 300°C/1.2 kgf	8	g/10 min	ASTM D1238
Density	1.24	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.12	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.05	%	ISO 62
Melt Volume Rate, MVR at 300°C/1.2 kg	7	cm³/10 min	ISO 1133
ELECTRICAL (1)			
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
Comparative Tracking Index	250	V	IEC 60112
Hot-Wire Ignition (HWI), PLC 1	≥3	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 2	≥0.8	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥0.8	mm	UL 746A
FLAME CHARACTERISTICS (2)			
UL Yellow Card Link	E207780-101999064	-	-
UL Recognized, 94-5VA Flame Class Rating	≥2.5	mm	UL 94
UL Recognized, 94-5VB Flame Class Rating	≥2	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	≥0.8	mm	UL 94
Glow Wire Ignitability Temperature, 3.0 mm	900	°C	IEC 60695-2-13
Glow Wire Ignitability Temperature, 1.5 mm	900	°C	IEC 60695-2-13
Glow Wire Ignitability Temperature, 0.8 mm	900	°C	IEC 60695-2-13
Glow Wire Flammability Index, 3.0 mm	960	°C	IEC 60695-2-12
Glow Wire Flammability Index, 1.5 mm	960	°C	IEC 60695-2-12
Glow Wire Flammability Index, 0.8 mm	960	°C	IEC 60695-2-12
UV-light, water exposure/immersion	F1	-	UL 746C
INJECTION MOLDING (*)			
Drying Temperature	120	°C	
Drying Time	3 – 4	Hrs	
Drying Time (Cumulative)	48	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	295 – 315	°C	
Nozzle Temperature	290 – 310 295 – 315	°C	
Front - Zone 3 Temperature Middle - Zone 2 Temperature	280 – 305	°C	
Rear - Zone 1 Temperature	275 – 295	°C	
Mold Temperature	70 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Vent Depth	0.025 - 0.076	mm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.
- (3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article. The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

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