

LEXANTM COPOLYMER SLX9271T

REGION ASIA

DESCRIPTION

LEXAN SLX9271T resin is a non-chlorinated, non-brominated flame retardant polycarbonate copolymer resin with UL-94 VO rating at 3.0 mm, enhanced UV stabilization and added release agent for injection molding applications. The resin is available in transparent and black opaque color only.

TYPICAL PROPERTY VALUES

Revision 20240731

PROPERTIES TPCIAL VALUES UNITS TEST METHODS MECHANICAL.***** Testile Stress, yid. Type 1.50 mm/min 65 Main ASTM DG38 Testile Stress, yid. Type 1.50 mm/min 67 Main ASTM DG38 Tessile Stress, birt. Type 1.50 mm/min 100 % ASTM DG38 Tensile Strain, birt, Type 1.50 mm/min 2100 % ASTM DG38 Flexural Stress, yied. 1.3 mm/min, 50 mm span 96 Main ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 249.0 Min ASTM D790 Tensile Stress, yied. 20 mm/min 70 Min ASTM D790 Tensile Stress, break, 50 mm/min 70 Min SO 527 Tensile Stress, break, 50 mm/min 100 % SO 527 Tensile Stress, break, 50 mm/min 2100 % SO 527 Tensile Stress, yield, 20 mm/min 90 Min SO 527 Tensile Stress, yield, 20 mm/min 90 Min SO 527 Tensile Stress, yield, 20 mm/min 90 Min SO 178 Tensile Stress, yield, 20 mm/min <th< th=""><th></th><th></th><th></th><th></th></th<>				
Tensile Stress, brd, Type I, 50 mm/min 65 MPa ASTM D638 Tensile Strain, Vid, Type I, 50 mm/min 6 % ASTM D638 Tensile Strain, Jok, Type I, 50 mm/min 100 % ASTM D638 Tensile Strain, Jok, Type I, 50 mm/min 2400 MPa ASTM D638 Tensile Strain, Jok, Type I, 50 mm/min 2400 MPa ASTM D638 Flexural Modulus, 1 mm/min, 50 mm span 2450 MPa ASTM D790 Tensile Strain, Jied, 50 mm/min 6 MPa 05 527 Tensile Stress, Dreak, 50 mm/min 6 % 05 527 Tensile Strain, Jied, 50 mm/min 100 % 05 527 Tensile Strain, Jeek, 50 mm/min 200 MPa 05 527 Tensile Strain, Jeek, 50 mm/min 200 MPa 05 527 Tensile Strain, Jeek, 50 mm/min 200 MPa 05 527 Tensile Strain, Jeek, 50 mm/min 200 MPa 05 527 Tensile Strain, Jeek, 50 mm/min 200 MPa 05 527 Tensile Strain, Jeek, 50 mm/min 300 MPa 05 527	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Tensile Stress, brk, Type I, 50 mm/min 67 Meha ASTM D638 Tensile Strain, Jok, Type I, 50 mm/min 100 % ASTM D638 Tensile Isdoulus, 5 mm/min 2400 MPa ASTM D638 Flexural Stress, yid, 1.3 mm/min, 50 mm span 96 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 2450 MPa ASTM D790 Tensile Stress, yield, 50 mm/min 70 MFa S0 527 Tensile Stress, break, 50 mm/min 100 MFa S0 527 Tensile Stress, break, 50 mm/min 100 MFa S0 527 Tensile Stress, break, 50 mm/min 100 MFa S0 527 Tensile Stress, break, 50 mm/min 210 MFa S0 527 Tensile Stress, yield, 2 mm/min 100 MFa S0 527 Tensile Stress, yield, 2 mm/min 260 MFa S0 178 Hexural Stress, yield, 2 mm/min 80 MFa S0 178 Elexiral Stress, yield, 2 mm/min 80 MFa S0 178 Elexiral Stress, yield, 2 mm/min 80 MFa S0 178<	MECHANICAL (1)			
Tensile Strain, lyd., Type I, 50 mm/min 6 % ASTM D638 Tensile Strain, brk. Type I, 50 mm/min >100 % ASTM D638 Tensile Modulus, 5 mm/min 2400 MPa ASTM D638 Flexural Modulus, 1.3 mm/min, 50 mm span 2450 MPa ASTM D790 Flexural Stress, yeld, 5.0 mm/min 67 MPa SO 527 Tensile Stress, break, 50 mm/min 6 % 50 527 Tensile Strain, break, 50 mm/min 6 % 50 527 Tensile Strain, break, 50 mm/min 100 % 50 527 Tensile Strain, break, 50 mm/min 2300 MPa 50 527 Tensile Strain, break, 50 mm/min 6 % 50 527 Tensile Strain, break, 50 mm/min 2300 MPa 50 527 Tensile Strain, break, 50 mm/min 6 % 50 527 Tensile Strain, break, 50 mm/min 80 MPa 50 72 Tensile Strain, break, 50 mm/min 80 MPa 50 72 Tensile Strain, break, 50 mm/min 80 MPa 50 72	Tensile Stress, yld, Type I, 50 mm/min	65	MPa	ASTM D638
Tensile Strain, brk, Type i, 50 mm/min >100 % ASTM 0638 Tensile Modulus, 5 mm/min 2400 MPa ASTM 0638 Flexural Stress, yld, 1,3 mm/min, 50 mm span 2450 MPa ASTM 0790 Flexural Modulus, 1.3 mm/min, 50 mm span 2450 MPa ASTM 0790 Tensile Stress, yled, 50 mm/min 67 MPa ISO 527 Tensile Stress, break, 50 mm/min 70 MPa ISO 527 Tensile Stress, break, 50 mm/min 2100 % ISO 527 Tensile Stress, break, 50 mm/min 2100 % ISO 527 Tensile Modulus, 1 mm/min 2100 MPa ISO 527 Flexural Modulus, 2 mm/min 2100 MPa ISO 527 Flexural Modulus, 2 mm/min 2100 MPa ISO 178 Idexural Modulus, 2 mm/min 2100 MPa ISO 178	Tensile Stress, brk, Type I, 50 mm/min	67	MPa	ASTM D638
Tensile Modulus, 5 mm/min 2400 MPa ASTM D780 Flexural Stress, yld, 1.3 mm/min, 50 mm span 2450 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 2450 MPa ASTM D780 Tensile Stress, break, 50 mm/min 70 MPa 50 527 Tensile Stress, break, 50 mm/min 100 % 50 527 Tensile Strain, break, 50 mm/min 2100 % 50 527 Tensile Strain, break, 50 mm/min 2100 % 50 527 Tensile Strain, break, 50 mm/min 2100 % 50 527 Tensile Strain, break, 50 mm/min 2100 % 50 527 Tensile Strain, break, 50 mm/min 2100 MPa 50 527 Tensile Strain, break, 50 mm/min 2100 MPa 50 527 Tensile Strain, break, 50 mm/min 2100 MPa 50 527 Tensile Strain, break, 50 mm/min 40 MPa 50 178 Tensile Strain, break, 50 mm/min 40 40 60 178 Breward Strain, break Modulus, 2 mm/min 40 40 70 18 </td <td>Tensile Strain, yld, Type I, 50 mm/min</td> <td>6</td> <td>%</td> <td>ASTM D638</td>	Tensile Strain, yld, Type I, 50 mm/min	6	%	ASTM D638
Flexural Stress, yield, 1.3 mm/min, 50 mm span 96 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 2450 MPa ASTM D790 Tensile Stress, yield, 50 mm/min 70 MPa 80.527 Tensile Stress, break, 50 mm/min 6 8 80.527 Tensile Strain, yield, 50 mm/min 100 % 80.527 Tensile Strain, break, 50 mm/min 200 MPa 80.527 Tensile Strain, break, 50 mm/min 200 MPa 80.527 Tensile Stress, yield, 2 mm/min 200 MPa 80.527 Tensile Modulus, 1 mm/min 200 MPa 80.527 Elevarial Modulus, 2 mm/min 450 MPa 80.527 Elevarial Modulus, 2 mm/min 450 MPa 80.178 Izeration Stre	Tensile Strain, brk, Type I, 50 mm/min	>100	%	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span 2450 MPa ASTM D790 Tensile Stress, pield, 50 mm/min 67 MPa ISO 527 Tensile Stress, break, 50 mm/min 70 MPa ISO 527 Tensile Strain, break, 50 mm/min 6 % SO 527 Tensile Strain, break, 50 mm/min >100 % ISO 527 Tensile Modulus, 1 mm/min 2300 MPa ISO 178 Flexural Stress, yield, 2 mm/min 96 MPa ISO 178 Flexural Modulus, 2 mm/min 450 MPa ISO 178 Tensile Minact, notched, 23°C 780 J/m ASTM D256 Izod Impact, notched, 30°C 130 J/m ASTM D256 Izod Impact, notched, 30°C 80 J/m ASTM D3763 Izod Impact, notched 80°10°3 +23°C 80 J/m ASTM D3763 Izod Impact, notched 80°10°3 +23°C 10 J/m ISO 180/14 Izod Impact, notched 80°10°3 -23°C 10 J/m ISO 180/14 Izod Impact, notched 80°10°3 -23°E 10 Impact Name ISO 180/14 <td>Tensile Modulus, 5 mm/min</td> <td>2400</td> <td>MPa</td> <td>ASTM D638</td>	Tensile Modulus, 5 mm/min	2400	MPa	ASTM D638
Tensile Stress, yield, 50 mm/min 67 MPa ISO 527 Tensile Stress, break, 50 mm/min 70 MPa ISO 527 Tensile Strain, yield, 50 mm/min 6 % ISO 527 Tensile Strain, yield, 50 mm/min 2100 % ISO 527 Tensile Strain, yield, 50 mm/min 2300 MPa ISO 527 Flexural Stress, yield, 2 mm/min 96 MPa ISO 178 Flexural Modulus, 2 mm/min 96 MPa ISO 178 Flexural Modulus, 2 mm/min 96 MPa ISO 178 Impact, notched, 23°C 780 J/m ASTM D256 Izod Impact, notched, 23°C 780 J/m ASTM D256 Izod Impact, notched, 30°C 80 J/m ASTM D256 Izod Impact, unotched 80°10°3 +23°C 80 J/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 80 J/m² ISO 180/10 Izod Impact, notched 80°10°3 spe3cam 65 J/m² ISO 180/10 Izod Impact, notched 80°10°3 spe3cam 80 J/m² ISO 190/10	Flexural Stress, yld, 1.3 mm/min, 50 mm span	96	MPa	ASTM D790
Tensile Stress, break, 50 mm/min 70 MPa ISO 527 Tensile Strain, yield, 50 mm/min 6 8 ISO 527 Tensile Strain, break, 50 mm/min >100 % ISO 527 Tensile Strain, break, 50 mm/min >100 % ISO 527 Tensile Modulus, 1 mm/min 96 MPa ISO 178 Flexural Modulus, 2 mm/min 96 MPa ISO 178 Impact, morthed, 23°C 780 J/m ASTM D256 Izod Impact, notched, 30°C 130 J/m ASTM D256 Instrumented Dart Impact Total Energy, 23°C NB I/m² ISO 180/14 Izod Impact, unnotched 80°10°3 x-23°C NB I/m² ISO 180/14 Izod Impact, ontched 80°10°3 xp=62mm 65 I/m² ISO 180/14 Izod Impact, ontched 80°10°3 xp=62mm 18 I/m² ISO 179/14 Ch	Flexural Modulus, 1.3 mm/min, 50 mm span	2450	MPa	ASTM D790
Tensile Strain, yield, 50 mm/min 6 % ISO 527 Tensile Strain, break, 50 mm/min >100 % ISO 527 Tensile Modulus, 1 mm/min 2300 MPa ISO 527 Flexural Stress, yield, 2 mm/min 96 MPa ISO 178 Flexural Modulus, 2 mm/min 2450 MPa ISO 178 IMPACT ⁽¹⁾ US MPa ASTM 0256 Izod Impact, notched, 23°C 780 J/m ASTM 0256 Izod Impact, notched 80°10°3 +23°C 80 J/m ASTM 0256 Izod Impact, notched 80°10°3 +23°C 80 J/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 80 J/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 80 J/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 10 J/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 10 J/m² ISO 180/10 Izod Impact, notched 80°10°3 +22°C 10 J/m² ISO 180/10 Izod Impact, notched 80°10°3 +22°C 10 N J/m² ISO 180/10 <td>Tensile Stress, yield, 50 mm/min</td> <td>67</td> <td>MPa</td> <td>ISO 527</td>	Tensile Stress, yield, 50 mm/min	67	MPa	ISO 527
Tensile Strain, break, 50 mm/min >100 % ISO 527 Tensile Modulus, 1 mm/min 2300 MPa ISO 527 Flexural Stress, yield, 2 mm/min 96 MPa ISO 178 Impact, 100 MPa ISO 178 Impact, 100 MPa ISO 178 Impact, 100 MPa ISO 178 Izod Impact, notched, 23°C 780 J/m ASTM D256 Izod Impact, notched, 30°C 130 J/m ASTM D256 Izod Impact, notched 80°10°3 +23°C 80 I/m ISO 180/14 Izod Impact, notched 80°10°3 +23°C 98 I/m² ISO 180/14 Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 180/14 Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 180/14 Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 180/14 Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 179/14 Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 179/14 Izod Impact, notched 80°10°3 +23°C 10 IXI <	Tensile Stress, break, 50 mm/min	70	MPa	ISO 527
Fensile Modulus, 1 mm/min 2300 MPa ISO 527 Flexural Stress, yield, 2 mm/min 96 MPa ISO 178 IMPACT ⁽¹⁾ USO 178 IMPACT ⁽²⁾ IMPACT ⁽³⁾ ISO 178 IMPACT ⁽¹⁾ USO 178 IMPACT ⁽³⁾ USO 178 IMPACT ⁽³⁾ ISO 178 Impact, notched, 23°C 780 J/m ASTM D256 ISO 180 (1) I	Tensile Strain, yield, 50 mm/min	6	%	ISO 527
Flexural Stress, yield, 2 mm/min 96 MPa 50 178 Flexural Modulus, 2 mm/min 2450 MPa 50 178 IMPACT (**) ************************************	Tensile Strain, break, 50 mm/min	>100	%	ISO 527
Flexural Modulus, 2 mm/min 2450 MPa ISO 178 IMPACT (¹) ASTM D256 IMPACT (¹) IMPACT (□) ASTM D256 IMPACT (□) IMPACT (□) ASTM D3763 IMPACT (□) ASTM D3763 IMPACT (□) IMPACT (□) <t< td=""><td>Tensile Modulus, 1 mm/min</td><td>2300</td><td>MPa</td><td>ISO 527</td></t<>	Tensile Modulus, 1 mm/min	2300	MPa	ISO 527
IMPACT ⁽¹⁾ Impact notched, 23°C 780 J/m ASTM D256 Izod Impact, notched, 30°C 130 J/m ASTM D256 Instrumented Dart Impact Total Energy, 23°C 80 J/m² ASTM D3763 Izod Impact, unnotched 80°10°3 +23°C NB kJ/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 65 kJ/m² ISO 180/10 Izod Impact, notched 80°10°3 spe 62mm 65 kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 spe 62mm 15 kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 spe 62mm NB kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 spe 62mm NB kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 spe 62mm NB kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 spe 62mm NB kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 spe 62mm NB kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 spe 62mm 19 C ASTM D1525 Charpy 23°C, V-notch Edgew 80°10°3 spe 62mm 19 C	Flexural Stress, yield, 2 mm/min	96	MPa	ISO 178
Izod Impact, notched, 23°C 780 J/m ASTM D256 Izod Impact, notched, 30°C 130 J/m ASTM D256 Instrumented Dart Impact Total Energy, 23°C 80 J ASTM D3763 Izod Impact, unnotched 80°10°3 +23°C NB I/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 65 I/m² ISO 180/1A Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 180/1A Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 180/1A Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 180/1A Izod Impact, notched 80°10°3 +23°C 10 I/m² ISO 180/1A Izod Impact, notched 80°10°3 sp=62mm 5 I/m² ISO 180/1A Chary 23°C, V-notch Edgew 80°10°3 sp=62mm 15 I/m² ISO 179/1eA Chary 23°C, Unnotch Edgew 80°10°3 sp=62mm 18 8 I/m² SO 179/1eA THERMAL ¹¹ 1 1 2 ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 12 2 ASTM E831 CTE, 40°C to 40°C, filow	Flexural Modulus, 2 mm/min	2450	MPa	ISO 178
Isod Impact, notched, 30°C Iso Iso	IMPACT (1)			
Instrumented Dart Impact Total Energy, 23°C 80 J ASTM D3763 Izod Impact, unnotched 80°10°3 +23°C NB kJ/m² ISO 180/1U Izod Impact, notched 80°10°3 +23°C 65 kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 10 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 65 kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 15 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm 15 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charyy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charyy 23°C, Unnotch Edgew 80°10°3 sp=62mm 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM D1525 CTE, 40°C to 40°C, flow 7.E-05 1/°C ASTM EB31 CTE, 40°C to 40°C, flow 7.E-05 1/°C ISO 11359-2	Izod Impact, notched, 23°C	780	J/m	ASTM D256
Izod Impact, unnotched 80°10°3 +23°C NB kJ/m² ISO 180/10 Izod Impact, notched 80°10°3 +23°C 65 kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 10 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 65 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm 15 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA THERMAL (") Vicat Softening Temp, Rate B/50 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM E831 CTE, 40°C to 40°C, flow 7.E-05 1/°C ASTM E831 CTE, 40°C to 40°C, flow 7.E-05 1/°C ASTM E831 CTE, 40°C to 40°C, xflow 7.E-05 1/°C ISO 11359-2 CTE, 40°C to 40°C, xflow 7.E-05 7.E-05 1/°C	Izod Impact, notched, -30°C	130	J/m	ASTM D256
Izod Impact, notched 80°10°3 +23°C 65 kJ/m² ISO 180/1A Izod Impact, notched 80°10°3 -30°C 10 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 65 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm 15 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eA THERMAL ⁽¹⁾ Vicat Softening Temp, Rate B/50 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM E831 CTE, -40°C to 40°C, flow 7.E-05 1/°C ASTM E831 CTE, -40°C to 40°C, flow 7.E-05 1/°C ASTM E831 CTE, -40°C to 40°C, flow 7.E-05 1/°C SO 11359-2 CTE, -40°C to 40°C, flow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, flow 7.E-05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	Instrumented Dart Impact Total Energy, 23°C	80	J	ASTM D3763
Izod Impact, notched 80°10°3 -30°C 10 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 65 kJ/m² ISO 179/1eA Charpy 23°C, U-notch Edgew 80°10°3 sp=62mm 15 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/50 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM D648 CTE, -40°C to 40°C, flow 7.E·05 1/°C ASTM E831 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	Izod Impact, unnotched 80*10*3 +23°C	NB	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80°10°3 sp=62mm 65 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80°10°3 sp=62mm 15 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/50 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM D648 CTE, -40°C to 40°C, flow 7.E-05 1/°C ASTM E831 CTE, -40°C to 40°C, xflow 7.E-05 1/°C ASTM E831 CTE, -40°C to 40°C, xflow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E-05 1/°C ISO 10695-10-2 Ball Pressure Test, 125°C + /- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	Izod Impact, notched 80*10*3 +23°C	65	kJ/m²	ISO 180/1A
Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm 15 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/50 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM E831 CTE, -40°C to 40°C, flow 7.E-05 1/°C ASTM E831 CTE, -40°C to 40°C, sflow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, sflow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, sflow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, sflow 7.E-05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	Izod Impact, notched 80*10*3 -30°C	10	kJ/m²	ISO 180/1A
Charpy 23°C, Unnotch Edgew 80°10°3 sp=62mm NB kJ/m² ISO 179/1eU THERMAL (1) Vicat Softening Temp, Rate B/50 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM D648 CTE, -40°C to 40°C, flow 7.E·05 1/°C ASTM E831 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	65	kJ/m²	ISO 179/1eA
THERMAL (1) Vicat Softening Temp, Rate B/50 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM E831 CTE, -40°C to 40°C, flow 7.E·05 1/°C ASTM E831 CTE, -40°C to 40°C, flow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - 1.EC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	15	kJ/m²	ISO 179/1eA
Vicat Softening Temp, Rate B/50 139 °C ASTM D1525 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM D648 CTE, -40°C to 40°C, flow 7.E-05 1/°C ASTM E831 CTE, -40°C to 40°C, xflow 7.E-05 1/°C ASTM E831 CTE, -40°C to 40°C, flow 7.E-05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E-05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	NB	kJ/m²	ISO 179/1eU
HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM D648 CTE, -40°C to 40°C, flow 7.605 1/°C ASTM E831 CTE, -40°C to 40°C, xflow 7.605 1/°C ASTM E831 CTE, -40°C to 40°C, flow 7.605 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.605 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	THERMAL (1)			
CTE, -40°C to 40°C, flow 7.E·05 1/°C ASTM E831 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ASTM E831 CTE, -40°C to 40°C, flow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	Vicat Softening Temp, Rate B/50	139	°C	ASTM D1525
CTE, -40°C to 40°C, xflow 7.E·05 1/°C ASTM E831 CTE, -40°C to 40°C, flow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	HDT, 1.82 MPa, 3.2mm, unannealed	124	°C	ASTM D648
CTE, -40°C to 40°C, flow 7.E·05 1/°C ISO 11359-2 CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	CTE, -40°C to 40°C, flow	7.E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow 7.E·05 1/°C ISO 11359-2 Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	CTE, -40°C to 40°C, xflow	7.E-05	1/°C	ASTM E831
Ball Pressure Test, 125°C +/- 2°C passes - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 139 °C ISO 306	CTE, -40°C to 40°C, flow	7.E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50 139 °C ISO 306	CTE, -40°C to 40°C, xflow	7.E-05	1/°C	ISO 11359-2
	Ball Pressure Test, 125°C +/- 2°C	passes	-	IEC 60695-10-2
Vicat Softening Temp, Rate B/120 140 °C ISO 306	Vicat Softening Temp, Rate B/50	139	°C	ISO 306
	Vicat Softening Temp, Rate B/120	140	°C	ISO 306



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	124	°C	ISO 75/Af
Relative Temp Index, Elec ⁽²⁾	80	°C	UL 746B
Relative Temp Index, Mech w/impact (2)	80	°C	UL 746B
Relative Temp Index, Mech w/o impact (2)	80	°C	UL 746B
PHYSICAL (1)			
Specific Gravity	1.2	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm ⁽³⁾	0.5 – 0.7	%	SABIC method
Melt Flow Rate, 300°C/1.2 kgf	17.5	g/10 min	ASTM D1238
Density	1.2	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.35	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62
Melt Volume Rate, MVR at 300°C/1.2 kg	16	cm³/10 min	ISO 1133
FLAME CHARACTERISTICS (2)			
UL Yellow Card Link	E207780-101124930	-	
UL Recognized, 94V-0 Flame Class Rating	≥3	mm	UL 94
Glow Wire Ignitability Temperature, 1.0 mm	875	°C	IEC 60695-2-13
Glow Wire Ignitability Temperature, 1.5 mm	850	°C	IEC 60695-2-13
Glow Wire Ignitability Temperature, 3.0 mm	850	°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, 1.0 mm	960	°C	IEC 60695-2-12
INJECTION MOLDING (4)			
Drying Temperature	120	°C	
Drying Time	2 – 4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	280 – 310	°C	
Nozzle Temperature	270 – 290	°C	
Front - Zone 3 Temperature	280 – 310	°C	
Middle - Zone 2 Temperature	270 – 290	°C	
Rear - Zone 1 Temperature	260 – 280	°C	
Hopper Temperature	60 – 80	°C	
Mold Temperature	80 – 110	°C	

⁽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.

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⁽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.