

LNPTM VERTONTM COMPOUND MV006S

MFX-7006 HS

DESCRIPTION

LNP VERTON MV006S is a compound based on Polypropylene (PP) resin containing 30% long glass fiber. Added features include Chemically Coupled, Structural and Heat Stabilized.

GENERAL INFORMATION	
Features	Heat Stabilized, High stiffness/Strength, No PFAS intentionally added
Fillers	Long Glass Fiber
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY	
Automotive	Automotive Exteriors	
Building and Construction	Water Management	
Consumer	Sport/Leisure, Home Appliances, Commercial Appliance	
Industrial	Industrial General	

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL (1)			
Tensile Stress, break	110	MPa	ISO 527
Tensile Strain, break	2.2	%	ISO 527
Tensile Modulus, 1 mm/min	7500	MPa	ISO 527
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress, yield, 2 mm/min	135	MPa	ISO 178
Flexural Stress, break, 2 mm/min	130	MPa	ISO 178
Tensile Modulus, 5 mm/min	7100	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2.8	%	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	95	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	6100	MPa	ASTM D790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	135	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	130	MPa	ASTM D790
IMPACT (1)			
Izod Impact, notched 80*10*4 +23°C	24	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	42	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	24	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	35	kJ/m²	ISO 179/1eU
Izod Impact, notched, 23°C	195	J/m	ASTM D256
Izod Impact, unnotched, 23°C	460	J/m	ASTM D4812
Multiaxial Impact	14	J	ISO 6603



TYPICAL VALUES				
THERMAL. ¹⁹ Vical Softening Temp, Rate B/50 140 °C 80.306 BOTJA/, 1.8 MP Fathw 80°10°4 spe-64mm 157 °C 80.75 jA/ BOTJA/, 1.8 MP Fathw 80°10°4 spe-64mm 164 °C 80.75 jA/ BOTJA/, 1.8 MP Fathw 80°10°4 spe-64mm 164 °C 80.75 jA/ CTE, 40°C to 40°C, flow 2.8605 1/°C ASTM D1525 CTE, 40°C to 40°C, flow 160 °C ASTM D1525 Not, 1.8 ZMP, 3. ZMR, 1.2 MR, 2.2 MR, 1.2 MR 166 °C ASTM D1525 HOT, 1.8 ZMP, 3. ZMR, 1.2 MR 166 °C ASTM D1831 CTE, 40°C to 40°C, xflow 360 10°C ASTM D331 CTE, 40°C to 40°C, xflow 360 °C U.7 468 Relative Temp Index, Mech w/lompact. ¹⁰ 65 °C U.7 468 Relative Temp Index, Mech w/lompact. ¹⁰ 50 °C U.7 468 Relative Temp Index, Mech w/lompact. ¹⁰ 60 °C U.7 468 Relative Temp Index, Mech w/lompact. ¹⁰ 50 S0 C Relative Temp Index, Mech w/lompact. ¹⁰ 0.0 <th>PROPERTIES</th> <th>TYPICAL VALUES</th> <th>UNITS</th> <th>TEST METHODS</th>	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Vict Softening Temp, Rate B/50 140 °C 800 36 HOT/IR, I.S. Mina Platay 80°10'4 spe64mm 164 °C 800 75/18 CTE, 40°C to 40°C, 160w 250 50 11°C 800 13359-2 CTE, 40°C to 40°C, 160w 80.05 11°C 801 1359-2 CTE, 40°C to 40°C, 40°C, 40°C 80.00 11°C 801 1359-2 HOT, 1.82 Mina, 3.2mm, unamenaled 156 °C ASTM 683 CTE, 40°C to 40°C, 160w 7.10 0 11°C ASTM 883 CTE, 40°C to 40°C, 40°C, 40°C 40 0 40 0 40 0 Relative Temp Index, Mech w/Impact 50 °C ASTM 883 Relative Temp Index, Mech w/Impact 50 °C U.7468 Relative Temp Index, Mech w/Impact 12 90 0 U.7468 Relative Temp Index, Mech w/Impact 12 90 0<	Instrumented Dart Impact Energy @ peak, 23°C	8	J	ASTM D3763
HOT JAL 1.8 MB Flatw 80*10*4 sp=64mm 157 °C SO 75 JAL HOT JEL 0.45 MB Flatw 80*10*4 sp=64mm 164 °C SO 75 JAL HOT JEL 0.45 CM 60°C, 1600 25-65 1/°C SO 11359-2 CTE, 40°C to 40°C, 1600 400-40°C, 4100 °C ASIM D152-5 Ukat Softening Temp, Rate 8/50 140 °C ASIM D152-5 HOT, 1.82 MPa, 3.2mm, unannealed 156 °C ASTM E831 CTE, 40°C to 40°C, 1600 3.605 1/°C ASTM E831 CTE, 40°C to 40°C, 40°C, 40°C 3.605 1/°C ASTM E831 CTE, 40°C to 40°C, 40°C, 40°C 5.60 °C U.7468 Relative Temp Index, Idee 10° 5.60 °C U.7468 Relative Temp Index, Mech w/ Impact 10° 5.60 °C U.7468 Relative Temp Index, Mech w/ Impact 10° 5.00 °C U.7468 Relative Temp Index, Mech w/ Impact 10° 5.00 °C U.7468 William Mistar Absorption (23°C/ 50KR) 0.00 8 S 0.62 1 United Mod Shrinkage, flow, 24 hrs 10° 0.20	THERMAL (1)			
REDTIBLE 0.45 MPR Flatus 80°10° 4 pe=64mm 164 °C 10°C 10°C <td>Vicat Softening Temp, Rate B/50</td> <td>140</td> <td>°C</td> <td>ISO 306</td>	Vicat Softening Temp, Rate B/50	140	°C	ISO 306
CT. 4.0°Ct o 40°C, flow 2.5E95 1,°C ISO 11359-2 CT. 4.0°Ct o 40°C, flow 80.0E95 1,°C 8511359-2 Vicat Softening Temp, Rate BJS 140 °C ASTM D1525 HDT, 1.82 MRs, 3.2mm, unannealed 156 °C ASTM B831 CTE, 40°Ct to 40°C, flow 71.0E9 1,°C ASTM B831 CTE, 40°Ct to 40°C, flow 11.0E9 1,°C ASTM B831 Relative Temp Index, Mech w/Impact ^{CP} 65 °C U.7468 Relative Temp Index, Mech w/Impact ^{CP} 55 °C U.7468 Relative Temp Index, Mech w/Impact ^{CP} 5 °C U.7468 Relative Temp Index, Mech w/Impact ^{CP} 5 °C U.7468 Relative Temp Index, Mech w/Impact ^{CP} 5 °C U.7468 Relative Temp Index, Mech w/Impact ^{CP} 12 Sc Sc Webstate Absorption (23°C Jakins 40 12 Sc Sc Mold Strinkage, flow, 24 hrs 0.28 XSTM D575 Sc Mold Strinkage, flow, 24 hrs ^{CP} 22 XSTM D575 XSTM D575	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	157	°C	ISO 75/Af
CT. 4.0°C to 40°C, vilow 8.0E05 1,1°C ISO 11359-2 Vicat Softening Temp, Rate B/50 140 °C ASTM D648 DTD, 1.82 MPa, 3.2m, unannealed 156 °C ASTM D648 CTE, 40°C to 40°C, flow 3.9E05 1,1°C ASTM E831 CTE, 40°C to 40°C, flow 7.1E05 1,1°C ASTM E831 Relative Temp Index, Bleck (Pilopact (Pilopact)) 65 °C U. 7468 Relative Temp Index, Mech (Milmpact (Pilopact)) 65 °C U. 7468 Relative Temp Index, Mech (Milmpact) 1.2 g/cm² U. 7468 Relative Temp Index, Mech (Milmpact) 1.2 g/cm² U. 7468 Relative Temp Index, Mech (Milmpact) 1.2 g/cm² U. 7468 Walter Mach (Milmpact) 0.0 % S0 1183 Mold Strink (Milmpact) 0.00 % S0 62 Mold Strinkage, flow, 24 hrs 0.2 % Mold Strinkage, flow, 24 hrs (Pilop) ASTM D952 Mold Strinkage, flow, 24 hrs (Pilop) 0.2 % ASTM D953 Mold Strinkage, flow, 24 hrs (Pilop)	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	164	°C	ISO 75/Bf
Victo Softening Temp, Rate 8 J 50 40 C ASTM D643 HDT, 128 JMPs, 3.2mm, unamealed 156 °C ASTM D643 ETE, 40°C to 40°C, flow 3.160 1°C ASTM E831 CTE, 40°C to 40°C, flow 1.160 1°C ASTM E831 Relative Temp Index, Blecte ⁽²⁾ 5 °C U.7468 Relative Temp Index, Mech w/Impact ⁽²⁾ 5 °C U.7468 Relative Temp Index, Mech w/Impact ⁽²⁾ 5 °C U.7468 Relative Temp Index, Mech w/Impact ⁽²⁾ 5 °C U.7468 Relative Temp Index, Mech w/Impact ⁽²⁾ 12 (2 U.7468 Relative Temp Index, Mech w/Impact ⁽²⁾ 12 (2 U.7468 Molture Absorption (23°C 50% RM) 0.00 % S0 2 Molture Absorption (23°C 50% RM) 0.21 % S0 29 Molture Absorption (23°C 50% RM) 0.22 JC X5 X5 29 Molt Shrinkage, flow, 24 hrs 0.2 X5 X5 X5 X5 X5 X5 <t< td=""><td>CTE, -40°C to 40°C, flow</td><td>2.5E-05</td><td>1/°C</td><td>ISO 11359-2</td></t<>	CTE, -40°C to 40°C, flow	2.5E-05	1/°C	ISO 11359-2
HOT, 1.82 MPs, 3.2mm, unanealed 156 °C ASTM D648 CTE, 40°C to 40°C, flow 3.96.05 1°C ASTM B831 CTE, 40°C to 40°C, flow 7.16.05 1°C ASTM B831 CTE, 40°C to 40°C, flow 65 °C U.7468 Relative Temp Index, Mech w/ impact f° 65 °C U.7468 Relative Temp Index, Mech w/ impact f° 55 °C U.7468 Relative Temp Index, Mech w/ impact f° 50 °C U.7468 Relative Temp Index, Mech w/ impact f° 95 °C U.7468 Relative Temp Index, Mech w/ impact f° 90 So So Wholf Strike Relative Temp Index, Mech w/ impact f° 90 So 20 Wholf Strike Relative Temp Index, Mech w/ impact for for Strike Mile 0.08 % 50 22 Wholf Strikingae, stflow, 24 hrs 0.21 9/cm³ ASTM D570 24 Wholf Strikingae, stflow, 24 hrs 0.28 3 ASTM D570 24 Waser Factor Washer 4 10°-10 in 5 min/ tib in ti	CTE, -40°C to 40°C, xflow	8.0E-05	1/°C	ISO 11359-2
CTE. 40°C to 40°C, flow 3,969.5 1°C ASTM E831 CTE. 40°C to 40°C, folow 7,169.5 1°C ASTM E831 Relative Temp Index, Elec (°) 65 °C U. 7468 Relative Temp Index, Mech w/Impact (°) 65 °C U. 7468 Relative Temp Index, Mech w/Impact (°) 65 °C U. 7468 PHYSICAL (°) U. 7468 °C V. 7468 PHYSICAL (°) U. 7468 °C °C PHYSICAL (°) U. 7468 °C °C PHYSICAL (°) U. 7468 °C °C PHYSICAL (°) U. 7468 °C	Vicat Softening Temp, Rate B/50	140	°C	ASTM D1525
CF 4.0°C to 40°C, riflow 7.165 1,°°C ASTMERSIA Relative Temp Index, Elect. ⁽²⁾ 65 °C U.7468 Relative Temp Index, Mech w/ Impact. ⁽²⁾ 65 °C U.7468 Relative Temp Index, Mech w/ Impact. ⁽²⁾ 65 °C U.7468 Ports CAL. ** *** *** V.7468 Ports CAL ** *** *** *** Bestity 1.2 %** \$50.24 *** Moist Absorption (23°C/ Saturated) 0.008 *** \$50.24 ** Mold Shrinkage, flow, 24 hrs 0.21 *** \$50.294 ** Mold Shrinkage, flow, 24 hrs 0.28 *** \$50.294 ** Mold Shrinkage, flow, 24 hrs 0.28 *** \$50.294 ** Mold Shrinkage, flow, 24 hrs ⁽³⁾ 0.22 ** ** \$50.795 ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **	HDT, 1.82 MPa, 3.2mm, unannealed	156	°C	ASTM D648
Relative Temp Index, Relec (2) 65 °C U. 7468 Relative Temp Index, Mech w/ Impact (2) 65 °C U. 7468 Relative Temp Index, Mech w/ Impact (2) 65 °C U. 7468 PHYSICAL (1) Density July S/Cm² SO 183 Molsture Absorption (23°C / 50°R RH) 0.08 % 50 62 Molesture Absorption (23°C / 50°R RH) 0.09 % 50 62 Molesture Absorption (23°C / 50°R RH) 0.00 % 50 62 Molesture Absorption (23°C / 50°R RH) 0.00 % 50 62 Molesture Absorption (23°C / 50°R RH) 0.00 % 50 62 Molesture Absorption (23°C / 50°R RH) 0.01 % 50 62 Molesture Absorption (23°C / 50°R RH) 0.02 % 50 294 Molesture Absorption (23°C / 50°R RH) 0.01 % 50 294 Molesture Absorption (23°C / 24hrs) 0.02 % 75 70 70 70 70 70 70 70 70 70 70 70 70 70	CTE, -40°C to 40°C, flow	3.9E-05	1/°C	ASTM E831
Relative Temp Index, Mechw / Impact (2) 55 °C U.7468 Relative Temp Index, Mechw / Impact (2) 55 °C U.7468 PHYSICAL (1) V V U.7468 Density 1.12 g/cm² ISO 1183 Moisture Absorption (23°C / 50% RH) 0.008 \$ ISO 62 Water Absorption (23°C / 50% RH) 0.008 \$ ISO 62 Mold Shrinkage, flow, 24 hrs 0.21 % ISO 294 Mold Shrinkage, xflow, 24 hrs 0.22 % ASTM D970 Mold Shrinkage, xflow, 24 hrs (3) 0.23 % ASTM D970 Mold Shrinkage, xflow, 24 hrs (3) 0.21 % ASTM D970 Mold Shrinkage, xflow, 24 hrs (3) 0.22 % ASTM D975 Wear Factor Washer 4 0.21 ASTM D975 Wear Factor Washer 5 ASTM D970 ASTM D975 Static Cor 0.39 2 ASTM D9702 Modified: Manual Decir Man	CTE, -40°C to 40°C, xflow	7.1E-05	1/°C	ASTM E831
Relative Temp Index, Mechaylo impact (2) 56 °C Un 768 Un 768 Pervision (2) Un 768 Un 768 <t< td=""><td>Relative Temp Index, Elec ⁽²⁾</td><td>65</td><td>°C</td><td>UL 746B</td></t<>	Relative Temp Index, Elec ⁽²⁾	65	°C	UL 746B
Physical. (¹¹) Pensity 1.12 g/cm² 10.183 Moisture Absorption (23°C / 50% RH) 0.008 % 10.00	Relative Temp Index, Mech w/impact (2)	65	°C	UL 746B
Density 1.12 g/cm³ ISO 1183 Moisture Absorption (23°C / 50% RH) 0.008 % ISO 62 Water Absorption, (23°C / 50% RH) 0.07 % 150 62-1 Mold Shrinkage, flow, 24 hrs 0.21 % 150 294 Mold Shrinkage, xflow, 24 hrs 0.28 % 150 294 Water Absorption, (23°C / 24hrs) 0.03 % ASTM D572 Mold Shrinkage, xflow, 24 hrs ⁽³⁾ 0.21 % ASTM D95 Mold Shrinkage, xflow, 24 hrs ⁽³⁾ 0.22 % ASTM D95 Wear Factor Washer 44 10^-10 in √5 mi/ft-lb-in ASTM D3702 Modified: Manual Dynamic CoF 0.36 10 - 10 in √5 mi/ft-lb-in ASTM D3702 Modified: Manual Etable CHARACTERISTICS ⁽²⁾ TURL (10 in √5 mi/ft-lb-in) ASTM D3702 Modified: Manual UR Recognized, 94H8 Flame Class Rating £45329-101358095 - - - UR Recognized, 94H8 Flame Class Rating 80 C - - Drying Temperature 20 - 250 C - Origination 20 - 250	Relative Temp Index, Mech w/o impact (2)	65	°C	UL 746B
Moisture Absorption (23°C / 50% RH) 0.008 % ISO 62 Water Absorption (23°C / saturated) 0.07 % ISO 62-1 Mold Shrinkage, flow, 24 hrs 0.21 % ISO 294 Density 1.12 g/cm³ ASTM D792 Water Absorption, (23°C / 24hrs) 0.03 % ASTM D570 Mold Shrinkage, flow, 24 hrs ⁽³⁾ 0.21 % ASTM D570 Mold Shrinkage, flow, 24 hrs ⁽³⁾ 0.21 % ASTM D570 Mold Shrinkage, flow, 24 hrs ⁽³⁾ 0.22 % ASTM D570 Mold Shrinkage, flow, 24 hrs ⁽³⁾ 0.28 % ASTM D570 Wear Factor Washer 4 10^10 in^5 min/fell-bir ASTM D3702 Modified: Manual Dynamic COF 0.36 2 ASTM D3702 Modified: Manual Static COF 0.39 2 ASTM D3702 Modified: Manual Value Cophized, 94HB Flame Class Rating 45.529-101358095 2 2 4 Use Cophized, 94HB Flame Class Rating 80 C 4 1 Dying Temperature 2 2	PHYSICAL (1)			
Water Absorption, (2°C/saturated) 0.07 % So 62-1 Mold Shrinkage, flow, 24 hrs 0.21 % So 294 Density 1.22 g/m³ ASTM D792 Water Absorption, (2°C/24hrs) 0.03 % ASTM D792 Mold Shrinkage, flow, 24 hrs (3) 0.21 % ASTM D795 Mold Shrinkage, flow, 24 hrs (3) 0.21 % ASTM D955 Mold Shrinkage, flow, 24 hrs (3) 0.21 % ASTM D950 Mold Shrinkage, flow, 24 hrs (3) 0.22 % ASTM D950 Wear Factor Washer 44 10~10 in/5~min/ft-lb-m ASTM D950 Moldified: Manual Dynamic COF 0.39 2 ASTM D3702 Modified: Manual Busic COF 0.39 1.38 1.39 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1	Density	1.12	g/cm³	ISO 1183
Mold Shrinkage, flow, 24 hrs0.21%50.294Mold Shrinkage, xflow, 24 hrs0.28%3.50Desity1.12ycm²ASTM D792Water Absorption, (23°C/24hrs)0.30%ASTM D570Mold Shrinkage, flow, 24 hrs (3)0.21%3.51M D955Mold Shrinkage, xflow, 24 hrs (3)0.28%ASTM D955Wear Factor Washer4410^1 D10*N5-min/H-lbrASTM D3702 Modified: ManualDynamic COF0.362ASTM D3702 Modified: ManualStatic COF0.392ASTM D3702 Modified: ManualU Yellow Card Link£45329-101358095-XU Recognized, 94HB Flame Class Rating\$1.5mmU 9.4U Yellow Card Link\$211U Typing Temperature\$8C1Drying Time411Melt Temperature20 − 250C1Welt Temperature20 − 250C1Middle - Zone 2 Temperature20 − 250C1Middle - Zone 2 Temperature20 − 250C1Mold Temperature20 − 250C1 <td>Moisture Absorption (23°C / 50% RH)</td> <td>0.008</td> <td>%</td> <td>ISO 62</td>	Moisture Absorption (23°C / 50% RH)	0.008	%	ISO 62
Mold Shrinkage, xflow, 24 hrs0.28%150 294Density1.12g/cm³ASTM D792Water Absorption, (23°C/24hrs)0.03%ASTM D570Mold Shrinkage, flow, 24 hrs (3)0.21%ASTM D955Wear Factor Washer4410~10 in^5 min/ft-lib-lirASTM D3702 Modified: ManualDynamic COF0.36-ASTM D3702 Modified: ManualStatic COF0.39-ASTM D3702 Modified: ManualUL Yellow Card Link\$4539-101358095-ASTM D3702 Modified: ManualUL Recognized, 94H Brane Class Rating1.5mmU9.94US Toylor Temperature80C-Drying Temperature80C-Melt Temperature20~250C-Melt Temperature20~250C-Middle-Zone 3 Temperature20~260C-Middle-Zone 2 Temperature20~260C-Mod Temperature	Water Absorption, (23°C/saturated)	0.07	%	ISO 62-1
Density 1.2 g/m³ ASTM D792 Water Absorption, (23°C/24hrs) 0.3 % ASTM D570 Mold Shrinkage, flow, 24 hrs ⁽³⁾ 0.21 % ASTM D955 Wear Factor Washer 44 10~10 in^5-min/ft-lb-m ASTM D3702 Modified: Manual Dynamic COF 0.36 2 ASTM D3702 Modified: Manual Extra CCF 0.39 2 ASTM D3702 Modified: Manual Ux Pellow Card Link £45329-101358095 2 ASTM D3702 Modified: Manual Ux Pellow Card Link £45329-101358095 3 2 2 Ux Pellow Card Link £45329-101358095 4 2 2 Ux Pellow Card Link £45329-101358095 5 2 2 Ux Pellow Card Link £45329-101358095 6 2 2 Ux Pellow Card Link £45329-101358095 5 2 2 2 Ux Pellow Card Link £45329-101358095 \$1 2 2 2 2 2 2 2 2 2 2 2 2	Mold Shrinkage, flow, 24 hrs	0.21	%	ISO 294
Mater Absorption, (23°C/24hrs) Mold Shrinkage, flow, 24 hrs ⁽³⁾ Mold Shrinkage, xflow, 24 hrs ⁽³⁾ Mold Temperature Mold Temperature	Mold Shrinkage, xflow, 24 hrs	0.28	%	ISO 294
Mold Shrinkage, flow, 24 hrs (3)0.21%ASTM D955Mold Shrinkage, xflow, 24 hrs (3)0.28%ASTM D955Wear Factor Washer4410~10 in^5-min/ft-lb-hrASTM D3702 Modified: ManualDynamic COF0.36-ASTM D3702 Modified: ManualStatic COF0.39-ASTM D3702 Modified: ManualELME CHARACTERISTICS (2)******Ut Pellow Card Link£45329-101358095-****Ut Recognized, 94HB Flame Class Rating12.5manU1.94IDITION MOLDING (4)*****Drying Temperature80****Drying Time4Hrs**Melt Temperature20~250****Front - Zone 3 Temperature250~260****Middle- Zone 2 Temperature250~260****Rear- Zone 1 Temperature20.245****Mold Temperature40~65****Mold Temperature40	Density	1.12	g/cm³	ASTM D792
Mold Shrinkage, xflow, 24 Install9.28%ASTM D955Wear Factor Washer4410~10 installASTM D3702 Moldified: ManualDynamic COF0.36-ASTM D3702 Moldified: ManualStatic COF0.39-ASTM D3702 Modified: ManualIL MECHARACTERISTICS (2)Ut Vellow Card Link£45329-101358095Ut Recognized, 94HB Flame Class Rating5.25mmU.94INJECTION MOLDING (4)Dying Temperature80Dying Temperature20~250Melt Temperature20~250Front - Zone 3 Temperature250~260Middle - Zone 2 Temperature250~260Middle - Zone 2 Temperature20~250Mold Temperature20~260Mold Temperature20~260Rear-Zone 1 Temperature20~260Mold TemperatureMold T	Water Absorption, (23°C/24hrs)	0.03	%	ASTM D570
Wear Factor Washer4410^10 in^5-min/ft-lb-hrASTM D3702 Modified: ManualDynamic COF0.36-ASTM D3702 Modified: ManualStatic COF0.39-ASTM D3702 Modified: ManualFLAME CHARACTERISTICS (2)Ut Yellow Card LinkE45329-101358095UL Recognized, 94HB Flame Class Rating1.5mmU.94INJECTION MOLDING (4)Drying Temperature80°CDrying Time4HrsMelt Temperature200 – 250°CFront - Zone 3 Temperature250 – 260°CMiddle - Zone 2 Temperature250 – 260°CRear - Zone 1 Temperature300 – 245°CMold Temperature40 – 65°CMold Temperature0.2 – 0.3MPa	Mold Shrinkage, flow, 24 hrs ⁽³⁾	0.21	%	ASTM D955
Dynamic COF0.36- OND ASTM D3702 Modified: ManualStatic COF0.39- OND ASTM D3702 Modified: ManualFLAME CHARACTERISTICS (*)Ut Yellow Card LinkE45329-101358095- OND ASTM D3702 Modified: ManualUL Recognized, 94HB Flame Class Rating≥1.5mmUL 94INJECTION MOLDING (*)Drying Temperature80°C- OND ASTM D3702 Modified: ManualProjing Time4HrsMelt Temperature250 – 250°C- OND ASTM D3702 Modified: ManualMiddle - Zone 3 Temperature250 – 260°C- OND ASTM D3702 Modified: ManualMiddle - Zone 2 Temperature250 – 260°C- OND ASTM D3702 Modified: ManualMold Temperature40 – 65°C- OND M3702 Modified: ManualMold Temperature40 – 65°C- OND M3702 Modified: ManualMold Temperature40 – 65MR2- OND M3702 Modified: ManualMold Temperature40 – 60MR2- OND M3702 Modified: ManualMold Temperature40 – 60MR2- OND M3702 Modified: Manual M3702 Modified: Manu	Mold Shrinkage, xflow, 24 hrs (3)	0.28	%	ASTM D955
Static COF0.39- CANDE ACTION MODIFIED STRICTS (2)UL Yellow Card LinkE45329-101358095- CANDESS RATION ACTION MODIFIED STRICTS RATION MODIFIED STRICTS RA	Wear Factor Washer	44	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
FLAME CHARACTERISTICS (2) Ut Yellow Card Link	Dynamic COF	0.36	-	ASTM D3702 Modified: Manual
UL Yellow Card Link UL Recognized, 94HB Flame Class Rating INECTION MOLDING (4) Prying Temperature Melt Temperature Melt Temperature 20 – 250 Yellow 250 Ye	Static COF	0.39	-	ASTM D3702 Modified: Manual
NURECTION MOLDING ⁽⁴⁾ Prying Temperature 80 Melt Temperature 200 200 200 200 200 200 200 200 200 20	FLAME CHARACTERISTICS (2)			
NJECTION MOLDING ⁽⁴⁾ Prying Temperature 80 °C Prying Time 4 Hrs Melt Temperature 220 – 250 °C Front - Zone 3 Temperature 245 – 255 °C Middle - Zone 2 Temperature 245 – 255 °C Rear - Zone 1 Temperature 230 – 245 °C Mold Temperature 40 – 65	UL Yellow Card Link	E45329-101358095	-	
Drying Temperature80°CDrying Time4HrsMelt Temperature220 – 250°CFront - Zone 3 Temperature250 – 260°CMiddle - Zone 2 Temperature245 – 255°CRear - Zone 1 Temperature230 – 245°CMold Temperature40 – 65°CBack Pressure0.2 – 0.3MPa	UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
Drying Temperature80°CDrying Time4HrsMelt Temperature220 – 250°CFront - Zone 3 Temperature250 – 260°CMiddle - Zone 2 Temperature245 – 255°CRear - Zone 1 Temperature230 – 245°CMold Temperature40 – 65°CBack Pressure0.2 – 0.3MPa	INJECTION MOLDING (4)			
Drying Time 4 Hrs Melt Temperature 220 – 250 °C Front - Zone 3 Temperature 250 – 260 °C Middle - Zone 2 Temperature 245 – 255 °C Rear - Zone 1 Temperature 230 – 245 °C Mold Temperature 40 – 65 °C Back Pressure 0.2 – 0.3 MPa		80	°C	
Melt Temperature 220 – 250 °C Front - Zone 3 Temperature 250 – 260 °C Middle - Zone 2 Temperature 245 – 255 °C Rear - Zone 1 Temperature 230 – 245 °C Mold Temperature 40 – 65 °C Back Pressure 0.2 – 0.3 MPa	Drying Time	4	Hrs	
Front - Zone 3 Temperature 250 – 260 °C Middle - Zone 2 Temperature 245 – 255 °C Rear - Zone 1 Temperature 230 – 245 °C Mold Temperature 40 – 65 °C Back Pressure 0.2 – 0.3 MPa		220 – 250	°C	
Rear-Zone 1 Temperature 230 – 245 °C Mold Temperature 40 – 65 °C Back Pressure 0.2 – 0.3 MPa	•	250 – 260	°C	
Mold Temperature 40 – 65 °C Back Pressure 0.2 – 0.3 MPa	·	245 – 255	°C	
Mold Temperature 40 – 65 °C Back Pressure 0.2 – 0.3 MPa	•	230 – 245	°C	
	Mold Temperature	40 – 65	°C	
Screw Speed 30 – 60 rpm	Back Pressure	0.2 - 0.3	MPa	
	Screw Speed	30 - 60	rpm	



- (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.
- (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.

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