

Styrolution Terblend® N NG-02 8% Glass Filled ABS/PA6 (Dry)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS)/Nylon Blend, Glass Reinforced , Nylon

Material Notes:

Terblend N NG-02 is a glass fibre reinforced ABS/PA6 blend with excellent dimensional stability, high impact strength and good surface appearance. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Terblend-N-NG-02-8-Glass-Filled-ABSPA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.3 %	1.3 %	23°C/50% R.H.; ISO 62
Melt Flow	14 g/10 min @Load 10.0 kg, Temperature 240 °C	14 g/10 min @Load 22.0 lb, Temperature 464 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	55.0 MPa	7980 psi	5mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	2 in/min; ASTM Test
Elongation at Break	3.5 %	3.5 %	5mm/min; ISO 527
	5.0 %	5.0 %	0.2 in/min; ASTM Test
Tensile Modulus	3.10 GPa	450 ksi	ASTM Test
	3.20 GPa	464 ksi	1mm/min; ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO Data
Flexural Modulus	2.80 GPa	406 ksi	ISO Data
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO Test
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179
	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179
	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	33.3 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	109 $\text{Å}^\circ\text{C}$	228 $\text{Å}^\circ\text{F}$	ASTM Test
	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	87.8 $\text{Å}^\circ\text{C}$	190 $\text{Å}^\circ\text{F}$	ASTM Test
	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	ISO 75
Vicat Softening Point	108 $\text{Å}^\circ\text{C}$	226 $\text{Å}^\circ\text{F}$	(50 $\text{Å}^\circ\text{C/h}$ / 50N) - B/50; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+13$ ohm-cm	$\geq 1.00\text{e}+13$ ohm-cm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.013	0.013	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	265 $\text{Å}^\circ\text{C}$	509 $\text{Å}^\circ\text{F}$	Injection molding
Injection Velocity	65.0 mm/sec	2.56 in/sec	Injection molding

Descriptive Properties	Value	Comments
Commercial Status	Active America	
Primary Processing Technique	Injection Molding	
UL.UL-C	Yes	

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