

Styrolution Terblend® N NG-04 20% Glass Filled ABS/PA6 (Dry)

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

Material Notes:

Terblend N NG-04 is a glass fibre reinforced ABS/PA6 blend with excellent dimensional stability, low mold shrinkage and high heat resistance. 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-04-20-Glass-Filled-ABSPA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.1 %	1.1 %	23°C/50% R.H.; ISO 62
Melt Flow	11 g/10 min @Load 10.0 kg, Temperature 240 °C	11 g/10 min @Load 22.0 lb, Temperature 464 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	0.2 in/min; ASTM Test
	115 MPa @Temperature -40.0 °C	16700 psi @Temperature -40.0 °F	ISO Data
Tensile Strength, Ultimate	80.0 MPa	11600 psi	5mm/min; ISO 527
Tensile Strength, Yield	76.0 MPa	11000 psi	2 in/min; ASTM Test
	37.0 MPa @Temperature 80.0 °C	5370 psi @Temperature 176 °F	ISO Data
Elongation at Break	3.0 %	3.0 %	0.2 in/min; ASTM Test
	3.2 %	3.2 %	5mm/min; ISO 527
	3.3 % @Temperature -40.0 °C	3.3 % @Temperature -40.0 °F	ISO Data
Elongation at Yield	5.9 % @Temperature 80.0 °C	5.9 % @Temperature 176 °F	ISO Data
Tensile Modulus	5.03 GPa	730 ksi	ASTM Test
	5.40 GPa	783 ksi	1mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Strength	115 MPa	16700 psi	ISO Data
Flexural Modulus	4.50 GPa	653 ksi	ISO Data
Izod Impact, Notched (ISO)	12.0 kJ/mÂ²	5.71 ft-lb/inÂ²	ISO Test
Charpy Impact Unnotched	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	ISO 179
	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.40 J/cmÂ²	6.66 ft-lb/inÂ²	ISO 179
	0.700 J/cmÂ²	3.33 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	171 Â°C	340 Â°F	ASTM Test
	174 Â°C	345 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	102 Â°C	215 Â°F	ASTM Test
	104 Â°C	219 Â°F	ISO 75
Vicat Softening Point	114 Â°C	237 Â°F	(50 Â°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	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Dielectric Strength Electrical Properties	40.0 kV/mm Metric	1020 kV/in English	IEC 60243-1 Comments
Dissipation Factor	0.013 @Frequency 1.00e+6 Hz	0.013 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	265 Â°C	509 Â°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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