

Styrolution Terblend® N NM-12 ABS/PA6 (Dry)

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

Material Notes:

Terblend N NM-12 is an ABS/PA6 blend combining high impact strength and rigidity with an excellent processability and 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-NM-12-ABSPA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.4 %	1.4 %	23 ^o C/50% R.H.; ISO 62
Melt Flow	23 g/10 min @Load 10.0 kg, Temperature 240 ^o C	23 g/10 min @Load 22.0 lb, Temperature 464 ^o F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	0.2 in/min; ASTM Test
Tensile Strength, Yield	50.0 MPa	7250 psi	50mm/min; ISO 527
	50.0 MPa	7250 psi	2 in/min; ASTM Test
Elongation at Break	>= 30 %	>= 30 %	0.2 in/min; ASTM Test
	40 %	40 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	3.2 %	3.2 %	50mm/min; ISO 527
Tensile Modulus	2.28 GPa	331 ksi	ASTM Test
	2.30 GPa	334 ksi	1mm/min; ISO 527
Flexural Modulus	2.20 GPa	319 ksi	ISO Data
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179
	0.900 J/cm ² @Temperature -30.0 ^o C	4.28 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 μ m/m- ^o C	50.0 μ in/in- ^o F	ISO 11359

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	99.0 Å°C	210 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Å°C	169 Å°F	ISO 75
Vicat Softening Point	112 Å°C	234 Å°F	(50 Å°C/h / 50N) - B/50; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Flammability, UL94	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	
Dielectric Constant	3.3	3.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	41.0 kV/mm	1040 kV/in	IEC 60243-1
Dissipation Factor	0.015	0.015	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 Å°C	509 Å°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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