

Styrolution Terblend[®] N NM-11 ABS/PA6 (Dry)

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

Material Notes:

Terblend N NM-11 is an ABS/PA6 blend combining very high impact strength, even at low temperatures, 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-11-ABSPA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.3 %	1.3 %	23 [°] C/50% R.H.; ISO 62
Melt Flow	18 g/10 min @Load 10.0 kg, Temperature 240 [°] C	18 g/10 min @Load 22.0 lb, Temperature 464 [°] F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.0 MPa	5220 psi	0.2 in/min; ASTM Test
Tensile Strength, Yield	43.0 MPa	6240 psi	50mm/min; ISO 527
	45.0 MPa	6530 psi	2 in/min; ASTM Test
	64.0 MPa @Temperature -40.0 [°] C	9280 psi @Temperature -40.0 [°] F	ISO Data
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
	>= 50 %	>= 50 %	0.2 in/min; ASTM Test
Elongation at Yield	3.5 %	3.5 %	50mm/min; ISO 527
	4.8 % @Temperature -40.0 [°] C	4.8 % @Temperature -40.0 [°] F	ISO Data
Tensile Modulus	1.93 GPa	280 ksi	ASTM Test
	2.00 GPa	290 ksi	1mm/min; ISO 527
Flexural Strength	62.0 MPa	8990 psi	ASTM Test
Flexural Modulus	1.80 GPa	261 ksi	ISO Data
	1.80 GPa	261 ksi	ASTM Test

Mechanical Properties (ISO)	Metric J/cm^2	English ft-lb/in^2	Comments
Charpy Impact Unnotched	NB	NB	ISO 179
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	7.00 J/cm^2	33.3 ft-lb/in^2	ISO 179
	1.50 J/cm^2 @Temperature -30.0 °C	7.14 ft-lb/in^2 @Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 $\mu\text{m/m-}^\circ\text{C}$	55.6 $\mu\text{in/in-}^\circ\text{F}$	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	90.6 $^\circ\text{C}$	195 $^\circ\text{F}$	ASTM Test
	96.0 $^\circ\text{C}$	205 $^\circ\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	65.6 $^\circ\text{C}$	150 $^\circ\text{F}$	ASTM Test
	71.0 $^\circ\text{C}$	160 $^\circ\text{F}$	ISO 75
Vicat Softening Point	104 $^\circ\text{C}$	219 $^\circ\text{F}$	(50 $^\circ\text{C/h}$ / 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	$\geq 1.00 \times 10^{13}$ ohm-cm	$\geq 1.00 \times 10^{13}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.3	3.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	41.0 kV/mm	1040 kV/in	IEC 60243-1

Electrical Properties Dissipation Factor	0.015 Metric	0.015 English	Comments IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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

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