

Styrolution Terblend[®] N NM-21 EF Gray 38058 ABS+PA (Dry)

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

Material Notes:

Description: Terblend[®] N NM-21 EF is an UV stabilized ABS/PA blend combining very high impact strength, even at low temperatures. The enhanced flowability enables 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-21-EF-Gray-38058-ABSPA-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% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 2577
Melt Flow	64.2 g/10 min @Load 10.0 kg, Temperature 240 [°] C	64.2 g/10 min @Load 22.0 lb, Temperature 464 [°] F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ISO 2039-2
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527-1/-2
Elongation at Break	25 %	25 %	Nominal; ISO 527-1/-2
Elongation at Yield	3.1 %	3.1 %	ISO 527-1/-2
Tensile Modulus	2.10 GPa	305 ksi	ISO 527-1/-2
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature -30.0 [°] C	5.23 ft-lb/in ² @Temperature -22.0 [°] F	ISO 180/A
	65.0 kJ/m ² @Temperature 23.0 [°] C	30.9 ft-lb/in ² @Temperature 73.4 [°] F	ISO 180/A
Charpy Impact Unnotched	NB @Temperature -30.0 [°] C	NB @Temperature -22.0 [°] F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 179/1eB
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	7.00 J/cmÂ²	33.3 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	88.0 Â°C	190 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	63.0 Â°C	145 Â°F	ISO 75-1/-2
Vicat Softening Point	110 Â°C	230 Â°F	VST/B/50; ISO 306
	200 Â°C	392 Â°F	VST/A/50; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.018	0.018	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Injection Molding

Descriptive Properties	Value	Comments
Color	Gray 38058	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding and Extrusion	

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