

Styrolution Terblend® N 3154 ASA / PA, 8% Mineral filled

Category : Polymer , Thermoplastic , ASA Polymer , Nylon

Material Notes:

Terblend N 3154 is an 8% mineral filled ABS/PA blend with good dimensional stability and enhanced rigidity. High dimensional stability Enhanced rigidity Mineral filled (8%) Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Terblend-N-3154-ASA-PA-8-Mineral-filled.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Water Absorption at Saturation	3.9 % @Temperature 23.0 °C	3.9 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ISO 294-4
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 260 °C	8.0 g/10 min @Load 11.0 lb, Temperature 500 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Elongation at Yield	2.9 %	2.9 %	ISO 527
Tensile Modulus	2.70 GPa	392 ksi	ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	10.0 J/cm ² @Temperature -30.0 °C	47.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	15.0 J/cm ²	71.4 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	97.0 °C	207 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	ISO 75
Vicat Softening Point	105 °C	221 °F	50°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	130 °C	266 °F	50°C/h; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	IEC 60093
Dissipation Factor	0.015	0.015	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	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	250 - 285 °C	482 - 545 °F	ISO 294
Mold Temperature	80.0 °C	176 °F	ISO 294
Injection Velocity	40.0 mm/sec	1.57 in/sec	ISO 294
	80.0 °C	176 °F	

Processing Properties	Metric	English	Comments
	@ Time 7200 - 14400 sec	@ Time 2.00 - 4.00 hour	

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