

Terblend N 3154

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

TECHNICAL DATASHEET

DESCRIPTION

Terblend® N 3154 is an 8% mineral filled ABS/PA blend with good dimensional stability and enhanced rigidity.

FEATURES

- High dimensional stability
- Enhanced rigidity
- Mineral filled (8%)

APPLICATIONS

- Housings of electrical devices

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 260 °C/5 kg	ISO 1133	cm ³ /10 min	8
Melt Volume Rate, 240 °C/10 kg	ISO 1133	cm ³ /10 min	31
Mechanical Properties			
Tensile Modulus	ISO 527	MPa	2700
Tensile Stress at Yield, 23 °C	ISO 527	MPa	55
Tensile Strain at Yield, 23 °C	ISO 527	%	2.9
Nominal Strain at Break, 23 °C	ISO 527	%	35
Flexural Modulus, 23 °C	ISO 178	MPa	2500
Flexural Strength, 23 °C	ISO 178	MPa	80
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	8
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	6
Charpy Unnotched Impact Strength, 23 °C	ISO 579	kJ/m ²	150
Charpy Unnotched Impact Strength, -30 °C	ISO 579	kJ/m ²	100
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	7
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m ²	5
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	105
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	130

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Heat Deflection Temperature A; (unannealed; 1.8 MPa)	ISO 75	°C	83
Heat Deflection Temperature B; (unannealed; 0.45 MPa)	ISO 75	°C	97
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	80
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	93
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	100
Electrical Properties			
Relative Permittivity (100 Hz)	IEC 62631-2-1	-	3.4
Relative Permittivity (1 MHz)	IEC 62631-2-1	-	3.1
Dissipation Factor (100 Hz)	IEC 62631-2-1	10 ⁻⁴	150
Dissipation Factor (1 MHz)	IEC 62631-2-1	10 ⁻⁴	150
Volume Resistivity	IEC 62631-3-1	Ohm*m	10 ¹³
Surface Resistivity	IEC 62631-3-1	Ohm	10 ¹⁵
Other Properties			
Density	ISO 1183	kg/m ³	1110
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	1.3
Filler Content (% Ash)	-	%	8
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
Processing			
Melt Temperature Range	ISO 294	°C	240 - 270
Mold Temperature Range	ISO 294	°C	60 - 80
Drying Temperature	-	°C	80 - 90
Drying Time	-	h	4 - 8
Molding shrinkage, free, longitudinal	-	%	0.6