INEOS STYROLUTION

Terblend N NG-04

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

TECHNICAL DATASHEET

DESCRIPTION

Terblend® N NG-04 is a 20% glass fiber reinforced ABS/PA blend with high dimensional stability and rigidity.

FEATURES

- Very high dimensional stability
- Very high rigidity
- High softening temperature
- Glass fiber reinforced (20%)

APPLICATIONS

- Automotive parts
- Overhead consoles
- Housings

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 240 °C/10 kg	ISO 1133	cm³/10 min	15
Mechanical Properties			
Tensile Modulus	ISO 527	MPa	5400
Tensile Stress at Break, 23 °C	ISO 527	MPa	60
Tensile Strain at Break, 23 °C	ISO 527	%	3.2
Flexural Modulus, 23 °C	ISO 178	MPa	4500
Flexural Strength, 23 °C	ISO 178	MPa	115
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	8
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	5
Charpy Unnotched Impact Strength, 23 °C	ISO 579	kJ/m²	30
Charpy Unnotched Impact Strength, -30 °C	ISO 579	kJ/m²	25
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m²	9
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	5
Hardness, Ball Indentation	ISO 2039-1	MPa	107
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	114
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	180

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Coefficient of Linear Thermal Expansion	ISO 11359	10^{-6}/°C	40
Heat Deflection Temperature A; (unannealed; 1.8 MPa)	ISO 75	°C	100
Heat Deflection Temperature B; (unannealed; 0.45 MPa)	ISO 75	°C	164
Electrical Properties			
Relative Permittivity (1 MHz)	IEC 62631-2-1	-	2.9
Dissipation Factor (1 MHz)	IEC 62631-2-1	10^{-4}	130
Volume Resistivity	IEC 62631-3-1	Ohm*m	10^{13}
Surface Resistivity	IEC 62631-3-1	Ohm	10^{14}
Other Properties			
Density	ISO 1183	kg/m³	1200
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.9
Glass Fibre content	-	%	20
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	-	%	0.3