

# Terblend N NG-02 UV

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

## TECHNICAL DATASHEET

### DESCRIPTION

Terblend® N NG-02 UV is an 8% glass fiber reinforced (UV stabilized) ABS/PA blend with enhanced dimensional stability and rigidity.

### FEATURES

- High dimensional stability
- Enhanced rigidity
- Enhanced softening temperature
- Glass fiber reinforced (8%)

### APPLICATIONS

- Automotive parts
- Ski-hatch openings
- Motorcycle fairings

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate, 240 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	30
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m <sup>2</sup>	6
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m <sup>2</sup>	3
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m <sup>2</sup>	8
Charpy Notched Impact Strength, -30 °C	ISO 179	kJ/m <sup>2</sup>	3
Charpy Unnotched, 23 °C	ISO 179	kJ/m <sup>2</sup>	35
Charpy Unnotched, -30 °C	ISO 179	kJ/m <sup>2</sup>	25
Tensile Stress at Yield, 23 °C	ISO 527	MPa	55
Tensile Strain at Yield, 23 °C	ISO 527	%	3
Tensile Modulus	ISO 527	MPa	3300
Elongation at Break (MD)	ISO 527	%	4
Flexural Strength, 23 °C	ISO 178	MPa	80
Flexural Modulus, 23 °C	ISO 178	MPa	2850
Hardness, Ball Indentation	ISO 2039-1	MPa	95
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	108

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Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	170
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	80
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	105
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	60
<b>Electrical Properties</b>			
Dissipation Factor (1 MHz)	IEC 60250	10 <sup>-4</sup>	130
Relative Permittivity (1 MHz)	IEC 60250	-	2.9
Volume Resistivity	IEC 60093	Ohm*m	1E13
Surface Resistivity	IEC 60093	Ohm	1E14
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1120
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	1.1
Filler Content (% Ash)		%	GF8
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.6
Melt Temperature Range	ISO 294	°C	240 - 270
Mold Temperature Range	ISO 294	°C	40 - 80