INEOS STYROLUTION

Terblend N NG-04EF SL

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

TECHNICAL DATASHEET

DESCRIPTION

Terblend® N NG-04EF is a 20% glass fiber Reinforced UV-stabilized ABS/PA blend with enhanced dimensional stability, rigidity and high flowability that was developed to give the best performance as back injection molding material for StyLight thermoplastic composites.

FEATURES

- High dimensional stability
- Low shrinkage
- Enhanced softening temperature
- Enhanced rigidity
- Glass fiber reinforced (30%)

APPLICATIONS

- Back injection molding material for StyLight

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	30
Melt Volume Rate, 240 °C/10 kg	ISO 1133	cm³/10 min	30
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	12
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	8
Tensile Stress at Yield, 23 °C	ISO 527	MPa	78
Tensile Strain at Yield, 23 °C	ISO 527	%	4
Flexural Strength, 23 °C	ISO 178	MPa	109
Flexural Modulus, 23 °C	ISO 178	MPa	4180
Charpy Unnotched Impact Strength, 23 °C	ISO 579	kJ/m²	53
Charpy Unnotched Impact Strength, -30 °C	ISO 579	kJ/m²	51
Method: injection molding (M), extrusion (E), blow molding (B)	-	-	5300
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	125
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	195
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	108

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Property, Test Condition	Standard	Unit	Values
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	190
Other Properties			
Density	ISO 1183	kg/m³	1215
Moisture Absorption	ASTM D570	%	4.4
Processing			
Melt Temperature Range	ISO 294	°C	240 - 270
Mold Temperature Range	ISO 294	°C	80
Drying Time	-	h	4