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INEOS Styrolution

ALBIS

Terblend® N NG-04EF

(ABS+PA6)-GF20 INEOS Styrolution

Terblend® N NG-04EF is a blend of ABS with PA 6, provides very good mechanical properties, a high melt flow and very good chemical resistance provided by the polyamide component. Parts from Terblend® NG-04EF have acoustic dampening properties and show in unpainted, textured surfaces a nice matt appearance. Terblend® N NG-04EF is a low emission 20% glass fiber reinforced "Enhanced Flow" grade, containing also a powerful UV package. The reinforcement provides a high heat performance and stiffness, for visible and structural parts.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	25 / *	cm³/10min	ISO 1133
Temperature	240 / *	°C	-
Load	10 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	5300 / 4000	MPa	ISO 527
Stress at Break	80 / 70	MPa	ISO 527
Strain at Break	4 / 7	%	ISO 527
Impact Strength (Charpy), +23°C	53 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	51 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	14 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	8 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	4500 / -	MPa	ISO 178
Flexural strength	115 / -	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	108 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	180 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	130 / *	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	35 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	130 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.5 / *	mm	-
UL recognition	yes / *	-	-
Burning Behav. at thickness h	HB / *	class	UL 94
Thickness tested	3.0 / *	mm	-
UL recognition	yes / *	-	-

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	3.9 / *	%	Sim. to ISO 62
Humidity absorption	0.9 / *	%	Sim. to ISO 62
Density	1200 / -	kg/m³	ISO 1183
Bulk density	600	kg/m³	-

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	1070	kg/m³	-
Thermal Conductivity of Melt	0.232	W/(m K)	-
Spec. heat capacity of melt	2270	J/(kg K)	-
Ejection temperature	177	°C	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	4 - 8	h	-
Melt temperature	240 - 270	°C	-
Mold temperature	40 - 80	°C	-

Characteristics

Terblend® N NG-04EF

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Processing
Injection Molding

Features
Low Emission

Delivery form
Pellets

Chemical Resistance
General Chemical Resistance

Special Characteristics
UV stablized

Applications
Automotive

Injection Molding

PREPROCESSING
Pre-drying Temperature: 80 - 90 °C
Pre-drying Time: 4 - 8h
PROCESSING
Melt temperature, range: 240 - 270 °C
Mold temperature, range: 40 - 80 °C