

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 / *	cm ³ /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/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	51 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	14 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	8 / -	kJ/m ²	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. Thicken.	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/m ³	ISO 1183
Bulk density	600	kg/m ³	-

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	1070	kg/m ³	-
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

Processing

Injection Molding

Features

Low Emission

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance

Special Characteristics

UV stabilized

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

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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