

Terblend® N NG-02 EF
(ABS+PA6)-GF8

INEOS Styrolution

Terblend® N,NG-02EF 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-02EF have acoustic dampening properties and show in unpainted, textured surfaces a nice matt appearance. Terblend® N NG-02EF is a low emission 8% glass fiber reinforced "Enhanced Flow" grade, containing also a powerful UV package. The reinforcement provides a higher heat performance and is invisible in combination with most automotive surface textures.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	40 / *	cm ³ /10min	ISO 1133
Temperature	240 / *	°C	-
Load	10 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3100 / 2400	MPa	ISO 527
Yield stress	55 / 40	MPa	ISO 527
Yield strain	3 / 4	%	ISO 527
Nominal strain at break	6 / 12	%	ISO 527
Impact Strength (Charpy), +23°C	30 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	35 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	11 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	6 / -	kJ/m ²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	97 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	171 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	118 / *	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	60 / *	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 / *	-	-

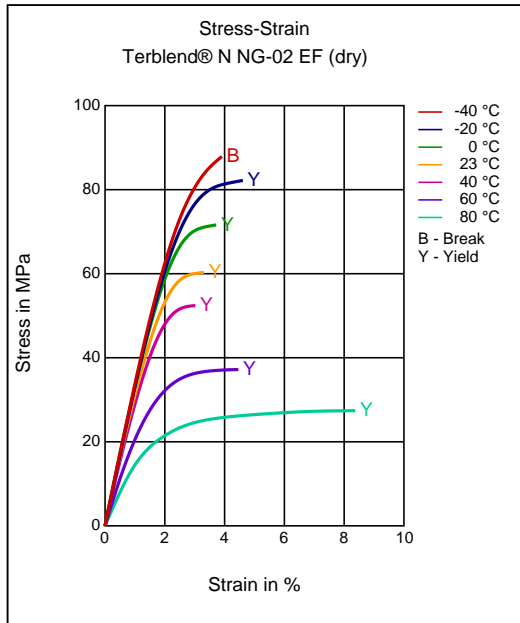
Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1120 / -	kg/m ³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Thermal Conductivity of Melt	0.25	W/(m K)	-

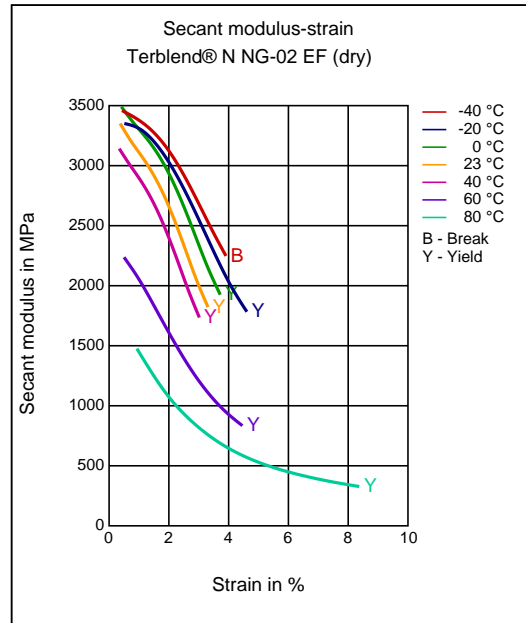
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	240 - 270	°C	-
Mold temperature	40 - 80	°C	-

Diagrams

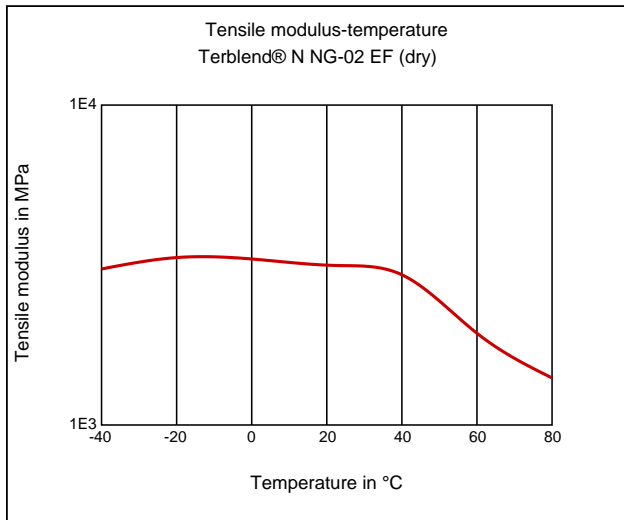
Stress-strain



Secant modulus-strain



Tensile Modulus-Temperature



Characteristics

Processing

Injection Molding, Profile Extrusion, Sheet Extrusion

Delivery form

Pellets

Special Characteristics

Light stabilized or stable to light, UV stabilized, Heat aging stabilized

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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