INEOS Styrolution

Terblend® N NM-21 EF

(ABS+PA6) INEOS Styrolution

Terblend® N NM-21EF 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® NM-21EF have acoustic dampening properties and show in unpainted, textured surfaces a nice matt appearance. Terblend® N NM-21EF “Enhanced Flow” does not only provide a very high melt flow but contains also a powerful UV package. Superior mechanical properties together with the low emission profile make it suitable for unpainted, interior surfaces with high demand for colour fastness e.g. in automotive.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	65 / *	cm³/10min	ISO 1133
Temperature	240 / *	°C	-
Load	10 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	2100 / 1400	MPa	ISO 527
Yield stress	45 / 36	MPa	ISO 527
Yield strain	3.1 / 5	%	ISO 527
Nominal strain at break	25 / 50	%	ISO 527
Notched Impact Strength (Charpy), +23°C	70 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	12 / -	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	86 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	98 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	110 / *	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	100 / *	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 / *	-	-

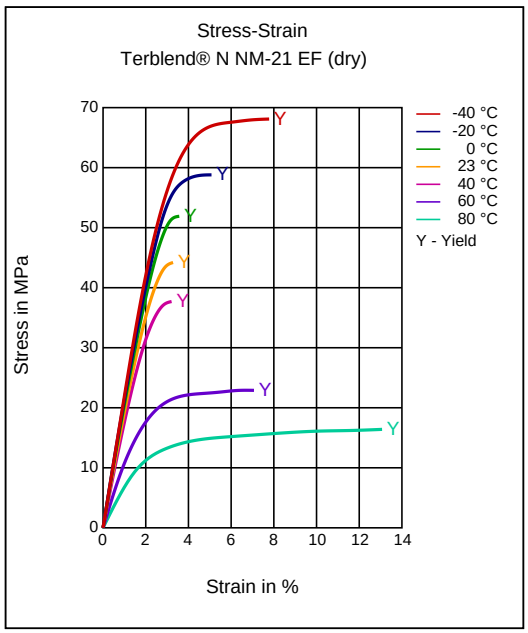
Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.3 / *	%	Sim. to ISO 62
Density	1070 / -	kg/m³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	950	kg/m³	-
Thermal Conductivity of Melt	0.265	W/(m K)	-
Spec. heat capacity of melt	2370	J/(kg K)	-
Ejection temperature	90	°C	-

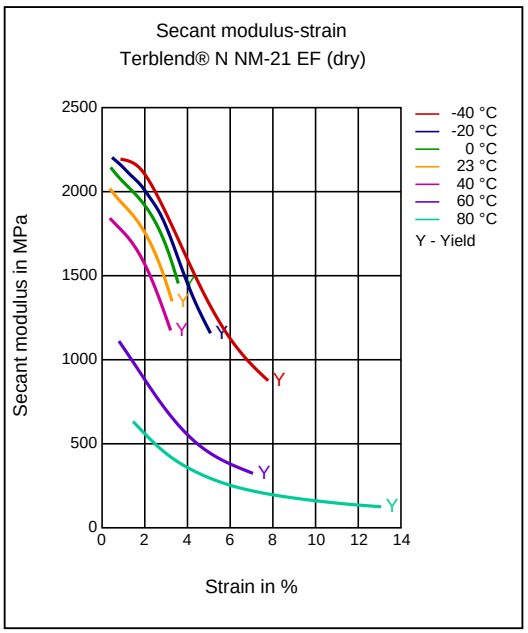
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	240 - 270	°C	-
Mold temperature	40 - 80	°C	-

Diagrams

Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Special Characteristics

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

Delivery form

Pellets

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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-

any critical component in any medical device that supports or sustains human life.

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