

Terblend® S NM-31
 (ASA+PA6)

INEOS Styrolution

Terblend® S NM-31 is a blend of ASA with PA 6, provides very good mechanical properties, a high melt flow, and an excellent chemical resistance. The ASA component assures a high UV resistance for all kind of interior applications – incl. unpainted surfaces in light colors – but also for exterior parts with medium weatherability requirements. Parts from Terblend® have acoustic dampening properties and show in unpainted, textured surfaces a nice matt appearance. Terblend® S NM-31 provides a very high melt flow and similar mechanical properties as Terblend® N NM-21EF. It is a low emission grade that can be used e.g. as drop-in solution for unpainted, automotive interior applications in light colours.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	60 / *	cm³/10min	ISO 1133
Temperature	240 / *	°C	-
Load	10 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	2100 / 1300	MPa	ISO 527
Yield stress	50 / 35	MPa	ISO 527
Yield strain	3.3 / 7	%	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	9 / -	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	65 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	92 / *	°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	1.6 / *	mm	-
Burning Behav. at thickness h	HB / *	class	UL 94
Thickness tested	3.2 / *	mm	-

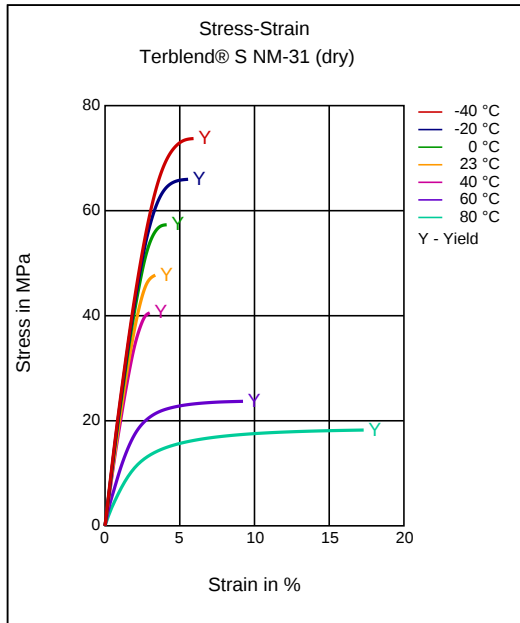
Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1070 / -	kg/m³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	928	kg/m³	-
Thermal Conductivity of Melt	0.363	W/(m K)	-
Spec. heat capacity of melt	2670	J/(kg K)	-
Ejection temperature	90	°C	-

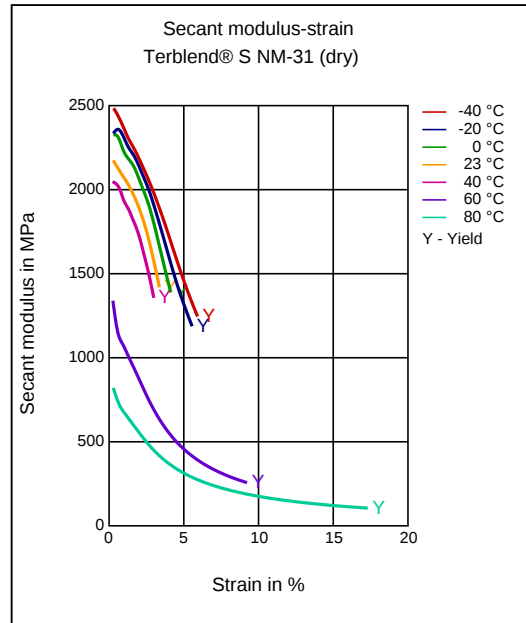
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	240 - 270	°C	-
Mold temperature	40 - 80	°C	-

Diagrams

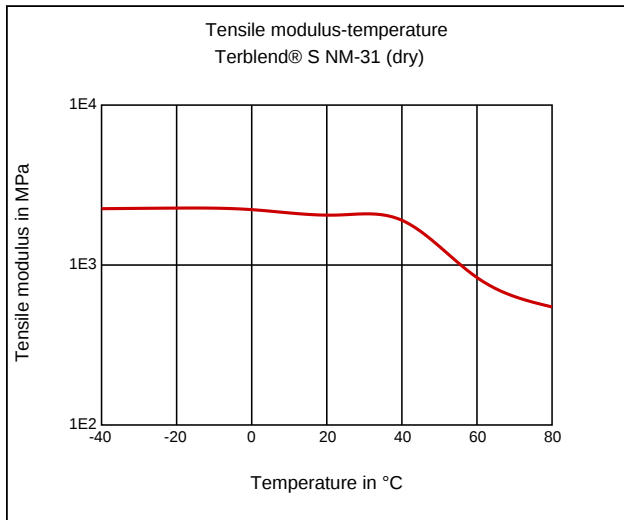
Stress-strain



Secant modulus-strain



Tensile Modulus-Temperature



Characteristics

Processing

Injection Molding

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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