

Terblend® S SG-02EF
(ASA+PA6)-GF8

INEOS Styrolution

Terblend® S SG-02EF 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 SG-02EF is a low emission 8% glass fiber reinforced “Enhanced Flow” grade with same UV-properties as Terblend® S NM-31. 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	35 / *	cm³/10min	ISO 1133
Temperature	240 / *	°C	-
Load	10 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3300 / 2050	MPa	ISO 527
Yield stress	65 / 42	MPa	ISO 527
Yield strain	3 / 7	%	ISO 527
Nominal strain at break	4.5 / 19	%	ISO 527
Impact Strength (Charpy), +23°C	52 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	30 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	3.5 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	2400 / -	MPa	ISO 178
Flexural strength	100 / -	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	11 / -	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	4 / -	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Ball Indentation Hardness	110 / -	MPa	ISO 2039-1

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	98 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	174 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	128 / *	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	65 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.5 / *	mm	-

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m³	ISO 1183
Bulk density	600	kg/m³	-

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	60 - 80	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Features

Color Stability, Low Emission, Low Odor, Scratch Resistant

Applications

Automotive

Special Characteristics

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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