

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

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Special Characteristics

UV stablized, 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
