INEOS Styrolution

Terblend® N NG-02 UV

(ABS+PA6)-GF8 INEOS Styrolution

Terblend® N NG-02 UV is a glass fibre reinforced, UV stabilised ABS/PA blend with excellent dimensional stability, high impact strength and good surface appearance.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30 / *	cm³/10min	ISO 1133
Temperature	240 / *	°C	-
Load	10 / *	kg	-
Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3300 / 2600	MPa	ISO 527
Yield stress	55 / 45	MPa	ISO 527
Yield strain	3 / 3.5	%	ISO 527
Nominal strain at break	4 / 7	%	ISO 527
Impact Strength (Charpy), +23°C	35 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	25 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	3 / -	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	80 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	105 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	108 / *	°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	1.6 / *	mm	-
Burning Behav. at thickness h	HB / *	class	UL 94
Thickness tested	3.2 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.4 / -	-	IEC 62631-2-1
Relative permittivity, 1MHz	2.9 / 3.6	-	IEC 62631-2-1
Dissipation Factor, 1MHz	130 / 500	E-4	IEC 62631-2-1
Volume Resistivity	1E13 / 1E11	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / 1E14	Ohm	IEC 62631-3-2
Comparative tracking index	600 / 550	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1120 / -	kg/m³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	980	kg/m³	-
Thermal Conductivity of Melt	0.167	W/(m K)	-
Spec. heat capacity of melt	2320	J/(kg K)	-
Ejection temperature	95	°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	-

Characteristics

Processing
Injection Molding

Special Characteristics
Anti-static

Delivery form
Pellets

Injection Molding

PREPROCESSING
Pre/Post-processing, Pre-drying, Temperature: 80 °C
Pre/Post-processing, Pre-drying, Time: 2 - 4 h

PROCESSING
injection molding, Melt temperature, range: 240 - 270 °C
injection molding, Melt temperature, recommended: 260 °C
injection molding, Mold temperature, range: 40 - 80 °C
injection molding, Mold temperature, recommended: 60 °C

Chemical Media Resistance

Acids

- ✔ Acetic Acid (5% by mass) (23°C)
- ✔ Citric Acid solution (10% by mass) (23°C)
- ✔ Lactic Acid (10% by mass) (23°C)
- ✔ Hydrochloric Acid (36% by mass) (23°C)
- ✔ Sulfuric Acid (5% by mass) (23°C)

Bases

- ✔ Sodium Hydroxide solution (35% by mass) (23°C)
- ✔ Sodium Hydroxide solution (1% by mass) (23°C)

Alcohols

- ✔ Methanol (23°C)
- ✔ Ethanol (23°C)

Hydrocarbons

- ✔ iso-Octane (23°C)

Standard Fuels

- ✔ Diesel fuel (pref. ISO 1817 Liquid F) (23°C)

Salt solutions

- ✔ Sodium Chloride solution (10% by mass) (23°C)
- ✔ Sodium Hypochlorite solution (10% by mass) (23°C)
- ✔ Sodium Carbonate solution (20% by mass) (23°C)
- ✔ Sodium Carbonate solution (2% by mass) (23°C)
- ✔ Zinc Chloride solution (50% by mass) (23°C)

Other

- ✔ 1% nonylphenoxy-polyethyleneoxy ethanol in water (23°C)
- ✔ Water (23°C)

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