INEOS STYROLUTION

StyLight Structural S G600-3

StyLight Thermoplastic Composite

TECHNICAL DATASHEET

DESCRIPTION

StyLight Structural S G600-3 is a continuous fiber reinforced thermoplastic composite based on a modified SAN matrix opti- mized for structural applications. StyLight is our innovative continuous fiber reinforced thermoplastic composite based on styrenic copolymers for lightweight design. This combination of structural stiffness, aesthetics, processability and dimensional stability makes StyLight an excellent solution for high performance applications.

FEATURES

- Excellent mechanical performance
- Very high dimensional stability
- Very good processing
- High impact strength
- Low moisture absorption

APPLICATIONS

- Seat structures
- Interior trims
- Drones

Property, Test Condition	Standard	Unit	Values
Mechanical Properties			
Tensile Modulus, 0° fiber direction, 23°C	ISO 527-4	GPa	32.7
Tensile Strength, 0° fiber direction, 23°C	ISO 527-4	MPa	760
Tensile Elongation, 0° fiber direction, 23°C	ISO 527-4	%	2.5
Flexural Modulus, 0° fiber direction, 23°C	ISO 14125	GPa	37.4
Flexural Strength, 0° fiber direction, 23°C	ISO 14125	MPa	1100
Thermal Properties			
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	108
Glass transition temperature	ISO 75	°C	110
Other Properties			
Density	ISO 1183	kg/m³	1750
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.08
TVOC	VDA 277	ppm	41
Processing			
Mold Temperature Range	ISO 294	°C	60 - 80
Sheet Temperature Range before Mold Closing	-	°C	180

Contact us:
Phone +49 (2133) 9309 – 168
INSTY.emea@ineos.com
www.ineos-styrolution.com

Revision Date: 2018.01.29

Property, Test Condition	Standard	Unit	Values
Consolidation Pressure	-	MPa	0.5 - 2
Melt Temperature Backmolding	-	°C	240 - 280
Material Description			
Area weight	-	g/m²	600
Glass Fibre content	-	%	47
Thickness per layer	-	mm	0.5

Typical values for uncolored products

DISCLAIMER

The aforementioned data shall constitute the agreed contractual quality of the product sold by INEOS Styrolution at the time of passing of risk. INEOS Styrolution does not make any further warranty, representation or guarantee of any kind, express or implied, regarding the suitability of the product for any particular purpose or application and INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.

Contact us:
Phone +49 (2133) 9309 – 168
INSTY.emea@ineos.com
www.ineos-styrolution.com