

Styron INSPIRE[®],ç DLGF 9621.00 Compounded Polypropylene, 60% LGF

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Overview: DLGF 9621.00 is a polypropylene homopolymer reinforced with 60% by weight of long glass fiber. PP-LGF60, Long Glassfiber Granulate). DLGF 9621.00 is produced by pultrusion/melt-impregnation process, thereby ensuring through impregnation of all the glassfibers and also providing improved "pellet robustness" for air conveying. It is available in two equivalent version: the "MR" version produced in USA and the "TR" version produced n Europe. Both are available in "standard black". This PP-LGF60 is a concentrate which has to be diluted with either "neat"-polypropylene and/or mineral filled PPbased compounds. The "dilution" is typically done as a dryblend of granulates by means of gravimetric dosing devices at the injection-molding machine. A weight ratio of 1:1 DLGF 9621.00 and ie LGF 8100 PP-copolymer will result in a composite-system having 30% by weight of glassfibers. DLGF 9621.00 has been especially formulated to meet the long term heat ageing resistance (LTHA) required for use in some automotive "interior" applications i.e. instrument panelcarrier or integrated door-modules. LTHA>100 h @140°C and/or LTHA > 400 h @150°C will be achieved after dilution of 30% GF-content with "neat"-PP (LGF 8100). The "long" glass fibers (11 mm length) provide high stiffness, strength and impact-resistance of the injection molded parts. The properties shown below have been measured on standardized "dogbone"-shape specimens (ISO 3167). Note: The mechanical properties which will be present in "real" injection-molded parts may be different " depending on the fiber-orientation and the fiber-length distribution profile " which themselves are resulting from hard ware configuration and processing parameter (such as i.e. the type of screw and mixing elements, diameter and radii of nozzle and hot-runners, number and size of gates, injection speed during mold filling and backpressure during dosing cycle.)Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-INSPIRE-DLGF-962100-Compounded-Polypropylene-60-LGF.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110.0 MPa	15950 psi	ISO 527-2/5
Elongation at Break	2.3 %	2.3 %	ISO 527-2/5
	3.0 %	3.0 %	Flexural Strain, outer 'fiber' strain; ISO 178
Tensile Modulus	6.50 GPa	943 ksi	ISO 527-2/5
Flexural Strength	155 MPa	22500 psi	3-Point Bending; ISO 178
Flexural Modulus	6.50 GPa	943 ksi	3-Point Bending; ISO 178
Charpy Impact Unnotched	4.50 J/cm ² @Temperature 23.0 Â°C	21.4 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179/1fU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 178/1eJ

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	156 Â°C	313 Â°F	Unannealed; ISO 75-2/A

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