

Styron LGF 9621 Homopolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Overview: LGF 9621 is polypropylene homopolymer reinforced with 60% by weight of long glass fibers. (PP-LGF60, Long Glass fiber Granulate). This PP-LGF60 is a "concentrate" which has to be diluted with either "neat"-polypropylene and/or mineral filled PP based compounds. The "dilution" is typically done as a dry blend of granulates by means of gravimetric dosing devices at the injection-molding machine. A weight ratio of 1:2 of LGF 9621.00 and i.e. LGF 8100 PP-copolymer will result in a composite-system have 20% by weight of glass fibers. LGF 9621 has been especially formulated to meet the long term heat ageing resistance (LTHA) required for use in some automotive "interior" applications i.e. instrument panel carrier or integrated door-modules. LTHA > 100 h@140°C and/or LTHA > 400 h @150°C will be achieved after dilution to 20% GF-content with "neat"-PP (LGF 8000 or LGF 8100). The "long" glass fibers (11mm length) provide high stiffness, strength and impact-resistance of the injection molded parts. The properties shown below have been measured on standardized "dog bone" "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 hardware configuration and processing parameters (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-LGF-9621-Homopolymer-Polypropylene.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	105 MPa	15200 psi	ISO 527-2/50
Elongation at Break	2.3 %	2.3 %	ISO 527-2/50
	3.0 %	3.0 %	Flexural strain, outer 'fiber' strain; ISO 178
Tensile Modulus	6.50 GPa	943 ksi	ISO 527-2
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 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1fU
	5.30 J/cm ² @Temperature 23.0 °C	25.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1fU

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China