

Fibremod™ GE277AI

Compounded Polypropylene

Borealis AG

Message:

Fibremod GE277AI is a 20 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding. This material has an excellent balance between impact strength and stiffness and is easy to process. The product is available in standard black 9502.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Recyclable materials		
	High liquidity		
Uses	Application in Automobile Field		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	4900	MPa	ISO 527-2
Tensile Stress	85.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus ¹	4200	MPa	ISO 178
Flexural Stress	107	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	9.5	kJ/m ²	ISO 179/1eA
23°C	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	52	kJ/m ²	ISO 179/1eU
23°C	50	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	142	°C	ISO 75-2/A
Vicat Softening Temperature	120	°C	ISO 306/B
Flammability	Nominal Value	Unit	Test Method
Fogging ² (100°C)		mg	DIN 75201
Emission		µgC/g	VDA 277
Injection	Nominal Value	Unit	

Mold Temperature	30.0 - 70.0	°C
Holding Pressure	30.0 - 70.0	MPa
Injection instructions		
Feeding Temperature: 40 - 80 °C Mass Temperature: 220 - 260 °C Back Pressure: Low to Medium Screw Speed: Low to Medium Flow Front Speed: 100 - 200 mm/s		
NOTE		
1.	2.0 mm/min	
2.	16 h	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

