

RIALGLASS H 07 S 50 G

Polypropylene Homopolymer

RIALTI Srl

Message:

Polypropylene homopolymer 50% reinforced with glass fiber chemically coupled; heat stabilized; thermal and mechanical properties conspicuous in a wide temperature interval; low coefficient of linear thermal dilatation (from 30°C to 70°C)

Medium flowability, compound indicated for injection molding of particulars with high stiffness and mechanical tightness in temperature, available in natural version and colored as per sample.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Chemically Coupled		
	Good Stiffness		
	Good Thermal Stability		
	Heat Stabilized		
	Homopolymer		
	Medium Flow		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.75	%	
Flow	0.15	%	
Water Absorption ¹ (23°C, 24 hr)	0.020	%	ISO 62
Ash Content	50	%	ISO 3451
Accelerated Oven Aging (150°C)	6.3	day	ISO 4577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	85		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	105	MPa	
Break, 23°C	105	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	1.5	%	

Break, 23°C	1.5	%	
Flexural Modulus ² (23°C)	11000	MPa	ISO 178
Flexural Stress (23°C)	178	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°C	9.0	kJ/m ²	
-20°C	9.5	kJ/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	155	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306/B50
Ball Pressure Test (145°C)	Pass		IEC 335
CLTE - Flow	3.5E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	50.0 to 60.0	°C	
Injection Rate	Fast		
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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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



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