

RIALGLASS H 07 S 40 G

Polypropylene Homopolymer

RIALTI Srl

Message:

Polypropylene homopolymer 40% glass fiber reinforced, chemically coupled; thermal stabilization of process; excellent rigidity with high mechanical performance at high temperature.

Flowability specific for injection molding; available in natural versions and colored as per sample.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Good Flow		
	Good Thermal Stability		
	High Rigidity		
	Homopolymer		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.20	%	
Water Absorption ¹ (23°C, 24 hr)	0.020	%	ISO 62
Ash Content	40	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	85		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	100	MPa	ISO 527-2/20
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2/20
Flexural Modulus ² (23°C)	7800	MPa	ISO 178
Flexural Stress (23°C)	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	42	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-20°C	8.5	kJ/m ²	
23°C	10	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 335
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	210 to 240	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Rate	Fast		
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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