

RIALGLASS CE 07 H 40 G

Polypropylene Copolymer

RIALTI Srl

Message:

Polypropylene elastomerized heterphasic copolymer 40% glass fiber reinforced; base thermal stabilization; good stiffness and thermal properties; wide impact strength interval, up to -40°C.
Flowability specific for injection molding; available in versions natural and colored as per sample.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Copolymer		
	Good Impact Resistance		
	Good Stiffness		
	Good Thermal Stability		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.95	%	
Flow	0.25	%	
Ash Content	30	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	61.0	MPa	
Break, 23°C	60.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	3.0	%	
Break, 23°C	5.0	%	
Flexural Modulus ¹ (23°C)	4800	MPa	ISO 178
Flexural Stress (23°C)	92.0	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	7.0	kJ/m ²	
-20°C	9.0	kJ/m ²	
23°C	17	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	135	°C	ISO 75-2/A
Vicat Softening Temperature	103	°C	ISO 306/B50
Ball Pressure Test	Pass		IEC 335
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 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.	2.0 mm/min		

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