

E-RIALGLASS H 15 S 30 TG

Polypropylene Homopolymer

RIALTI Srl

Message:

Polypropylene homopolymer obtained by partial selected industrial scraps recycling; 30% talc and glass fiber reinforced, chemically coupled. High flowability, specific for injection molding of complex particulars; excellent thermal and mechanical properties. Available in black and natural version and colored as per sample.

General Information			
Filler / Reinforcement	Glass\Talc,30% Filler by Weight		
Features	Chemically Coupled Good Thermal Stability High Flow Homopolymer		
Appearance	Black Colors Available Natural Color		
Forms	Regrind		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.50	%	
Water Absorption ¹ (23°C, 24 hr)	0.020	%	ISO 62
Ash Content	30	%	ISO 3451
Accelerated Oven Aging (150°C)	6.3	day	ISO 4577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	78		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	60.0	MPa	ISO 527-2/20
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/20
Flexural Modulus ² (23°C)	4700	MPa	ISO 178
Flexural Stress (23°C)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	27	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A

-20°C	4.6	kJ/m ²	
23°C	6.3	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	125	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 335
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Oxygen Index	21	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	50.0 to 60.0	°C	
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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