

E-RIALFILL H 07 55 C

Polypropylene Homopolymer

RIALTI Srl

Message:

Polypropylene homopolymer obtained by recycling of industrial scraps, 55% filler with calcium carbonate.
Flowability specific for injection molding. Available in natural and colored as per sample.

General Information			
Filler / Reinforcement	Calcium Carbonate,55% Filler by Weight		
Features	High Flow		
	Homopolymer		
Appearance	Colors Available		
	Natural Color		
Forms	Regrind		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.5	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.85	%	
Flow	0.85	%	
Water Absorption ¹ (23°C, 24 hr)	0.040	%	ISO 62
Ash Content	55	%	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	17.0	MPa	
Break, 23°C	14.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	2.0	%	
Break, 23°C	45	%	
Flexural Modulus ² (23°C)	3600	MPa	ISO 178
Flexural Stress (23°C)	34.0	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	2.3	kJ/m ²	

23°C	2.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	114	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°C	ISO 306/B50
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 250	°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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