

E-RIALFILL H 15 40 T

Polypropylene Homopolymer

RIALTI Srl

Message:

PP homopolymer obtained by recycling industrial scraps, 40% mineral filled.
High flowability for injection molding, good dimensional stability and stiffness.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Features	Good Flow		
	Good Stiffness		
	Good Thermal Stability		
	Good Toughness		
	Homopolymer		
Appearance	Natural Color		
Forms	Regrind		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	1.1	%	
Water Absorption ¹ (23°C, 24 hr)	0.030	%	ISO 62
Ash Content	40	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	78		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	3.00	MPa	
Break, 23°C	10.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	25	%	
Break, 23°C	22	%	
Flexural Modulus ² (23°C)	3500	MPa	ISO 178
Flexural Stress (23°C)	40.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	2.3	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	128	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	151	°C	ISO 306/A50
--	94.0	°C	ISO 306/B50
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	200 to 220	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Rate	Moderate		
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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