

RIALFILL H 15 20 T0

Polypropylene Homopolymer

RIALTI Srl

Message:

Homopolymer polypropylene compound filled with 20% aesthetic rigid talc,
Flowability specific for injection molding, good balance between the characteristics of rigidity and toughness.
Available in the natural versions and colored as per sample.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Flow		
	Good Toughness		
	High Rigidity		
	Homopolymer		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	1.2	%	
Water Absorption ¹ (23°C, 24 hr)	0.030	%	ISO 62
Ash Content	20	%	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	32.0	MPa	
Break, 23°C	28.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	5.0	%	
Break, 23°C	25	%	
Flexural Modulus ² (23°C)	2500	MPa	ISO 178
Flexural Stress (23°C)	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength (23°C)	32	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	115	°C	ISO 75-2/B
1.8 MPa, Unannealed	64.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	98.0	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 335
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	210 to 230	°C	
Mold Temperature	50.0 to 60.0	°C	
Injection Rate	Fast		
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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