

E-RIALFILL H 15 S 20 T3

Polypropylene Homopolymer

RIALTI Srl

Message:

PP homopolymer obtained by recycling of industrial scraps; 20% filled with talc ultra thin; thermal stabilization of process.
Indicated for injection molding of details, where it is requested high stiffness and dimensional stability with limited weight; available in version natural and colored as per sample.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Dimensional Stability		
	Good Thermal Stability		
	High Stiffness		
	Homopolymer		
Appearance	Colors Available		
	Natural Color		
Forms	Regrind		
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)	15	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	1.2	%	
Water Absorption ¹ (23°C, 24 hr)	0.020	%	ISO 62
Ash Content	20	%	ISO 3451
Accelerated Oven Aging (150°C)	4.2	day	ISO 4577
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	30.0	MPa	
Break, 23°C	22.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	5.0	%	
Break, 23°C	30	%	
Flexural Modulus ² (23°C)	2400	MPa	ISO 178
Flexural Stress (23°C)	45.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	34	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-20°C	2.0	kJ/m ²	
23°C	2.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	63.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A50
--	94.0	°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 (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	40.0 to 50.0	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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