

E-RIALFILL B 15 50 C

Polypropylene

RIALTI Srl

Message:

Polypropylene compound obtained by total recycling of industrial scrap, filled with calcium carbonate.
High flowability rating, for injection molding of articles of medium-big dimensions.
Available in the color version black and colored as per sample.

General Information			
Filler / Reinforcement	Calcium Carbonate		
Features	High Flow		
Uses	Profiles		
Appearance	Black		
	Colors Available		
Forms	Regrind		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	1.0	%	
Water Absorption ¹ (23°C, 24 hr)	0.030	%	ISO 62
Ash Content	52	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	74		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	15.0	MPa	
Break, 23°C	13.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	5.0	%	
Break, 23°C	15	%	
Flexural Modulus ² (23°C)	2500	MPa	ISO 178
Flexural Stress (23°C)	25.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	20	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	2.5	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	94.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	56.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	140	°C	ISO 306/A50
--	80.0	°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	210 to 230	°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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