

RIALFILL H 15 S 20 MJ

Polypropylene Homopolymer

RIALTI Srl

Message:

Ppolypropylene homopolymer compound 20% mica reinforced with thermal stabilization of process
Product specific for injection molding of article with high rigidity and thermo-resistance, low dimensional shrinkage and low linear thermal coefficient.
Available in natural version and colored as per sample.

General Information			
Filler / Reinforcement	Mica filler, 20% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Homopolymer		
	Thermal stability, good		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	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
Vertical flow direction	1.1	%	ISO 294-4
Flow direction	0.95	%	ISO 294-4
Water Absorption ¹ (23°C, 24 hr)	0.030	%	ISO 62
Ash Content	20	%	ISO 3451
Accelerated Oven Aging (150°C)	4.2	day	ISO 4577
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	31.0	MPa	ISO 527-2/20
Fracture, 23°C	27.0	MPa	ISO 527-2/20
Tensile Strain			ISO 527-2/20
Yield, 23°C	5.0	%	ISO 527-2/20
Fracture, 23°C	10	%	ISO 527-2/20
Flexural Modulus ² (23°C)	2700	MPa	ISO 178
Flexural Stress (23°C)	48.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	27	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	1.8	kJ/m ²	ISO 180/1A
23°C	2.4	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	124	°C	ISO 75-2/B
1.8 MPa, not annealed	72.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A50
--	97.0	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 335
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	200 - 220	°C	
Mold Temperature	40.0 - 60.0	°C	
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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