

RIALFILL H 07 S 40 MJ

Polypropylene Homopolymer

RIALTI Srl

Message:

Polypropylene homopolymer compound 40% mica reinforced with thermal stabilization of process.

Product specific for injection molding of articles with high rigidity and thermo-resistance, low dimensional shrinkage and low linear thermal coefficient.

Available in the natural versions and colored as per sample.

General Information			
Filler / Reinforcement	Mica,40% Filler by Weight		
Features	Good Dimensional Stability		
	Good Flow		
	Good Thermal Stability		
	High Rigidity		
	Homopolymer		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
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)	12	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.70	%	
Water Absorption ¹ (23°C, 24 hr)	0.050	%	ISO 62
Ash Content	40	%	ISO 3451
Accelerated Oven Aging (150°C)	6.3	day	ISO 4577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	80		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	33.0	MPa	
Break, 23°C	31.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	1.8	%	
Break, 23°C	2.3	%	
Flexural Modulus ² (23°C)	4900	MPa	ISO 178

Flexural Stress (23°C)	49.0	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			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	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	157	°C	ISO 306/A50
--	110	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 335
CLTE - Flow	4.0E-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	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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