RIALFILL H 07 S 20 T0

Polypropylene Homopolymer

RIALTI Srl

Message:

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

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Flow Good Stiffness Good Thermal Stability Good Toughness Homopolymer		
Appearance	Black Colors Available Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	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)	6.3	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	33.0	MPa	
Break, 23°C	26.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	5.0	%	
Break, 23°C	18	%	

Flexural Modulus [2] (23°C)	2800	MPa	ISO 178
Flexural Stress (23°C)	50.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-20°C	2.0	kJ/m²	
23°C	2.5	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	112	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A50
--	97.0	°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	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		

Recommended distributors for this material

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