

RIALFILL H 15 SL 50 TC

Polypropylene Homopolymer

RIALTI Srl

Message:

Polypropylene homopolymer filled with 50% talc and calcium carbonate mineral filler, thermal and light stabilization (UV radiations).
Flowability specific for injection molding; good stiffness, good superficial aesthetic and thermal properties; available in natural and colored as per sample.

General Information			
Filler / Reinforcement	Talc\Calcium Carbonate,50% Filler by Weight		
Additive	UV Stabilizer		
Features	Good Flow		
	Good Stiffness		
	Good Thermal Stability		
	Good UV Resistance		
	Homopolymer		
	Pleasing Surface Appearance		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm³	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	0.90	%	
Flow	0.90	%	
Water Absorption ¹ (23°C, 24 hr)	0.020	%	ISO 62
Ash Content	50	%	ISO 3451
Accelerated Oven Aging (150°C)	4.2	day	ISO 4577
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	76		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	22.0	MPa	
Break, 23°C	18.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	2.5	%	
Break, 23°C	7.5	%	

Flexural Modulus ² (23°C)	3800	MPa	ISO 178
Flexural Stress (23°C)	37.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-20°C	2.0	kJ/m ²	
23°C	2.3	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	114	°C	ISO 75-2/B
1.8 MPa, Unannealed	69.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A50
--	98.0	°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	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	200 to 220	°C	
Mold Temperature	40.0 to 50.0	°C	
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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