

# E-RIALFILL H 15 H 20 TD

Polypropylene Homopolymer

RIALTI Srl

## Message:

Polypropylene homopolymer 20% mineral filled obtained by complete recycling of industrial scraps highly selected, heat stabilized compound intended for injection molding.

It has been developed especially for the automotive under hood applications requiring very good long term heat stability with high heat distortion temperature and stiffness, available in the only black color version.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Heat Aging Resistance		
	Good Stiffness		
	Heat Stabilized		
	Homopolymer		
Uses	Automotive Under the Hood		
Appearance	Black		
Forms	Regrind		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	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	1.2	%	
Flow	1.2	%	
Water Absorption <sup>1</sup> (23°C, 24 hr)	0.030	%	ISO 62
Ash Content	20	%	ISO 3451
Accelerated Oven Aging (150°C)	20.8	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	31.0	MPa	
Break, 23°C	23.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	5.0	%	
Break, 23°C	30	%	
Flexural Modulus <sup>2</sup> (23°C)	2600	MPa	ISO 178

Flexural Stress (23°C)	47.0	MPa	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Unnotched Impact Strength (23°C)	36	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-20°C	1.8	kJ/m <sup>2</sup>	
23°C	2.3	kJ/m <sup>2</sup>	
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Heat Deflection Temperature			
0.45 MPa, Unannealed	115	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A50
--	95.0	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 335
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
<b>Flammability</b>	<b>Nominal Value</b>		<b>Test Method</b>
Flame Rating (1.50 mm)	HB		UL 94
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	40.0 to 50.0	°C	
Injection Rate	Moderate		
<b>NOTE</b>			
1.	50%RH		
2.	2.0 mm/min		

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## 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

