

E-RIALFILL C HB 20 T

Polypropylene Copolymer

RIALTI Srl

Message:

Polypropylene compound copolymer, 20% filled with selected talc.

High flowability specific for injection molding, good dimensional stability and excellent compromise between impact strength and stiffness up to low temperatures; available in the version of natural color and colored as per sample; the black is listed HB according to the norms of UL-94, file E178416.

General Information			
UL YellowCard	E178416-256785		
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Copolymer		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Stiffness		
	High Flow		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Regrind		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	1.2	%	
Ash Content	20	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	25.0	MPa	
Break, 23°C	18.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	8.0	%	
Break, 23°C	100	%	
Flexural Modulus ¹ (23°C)	2200	MPa	ISO 178

Flexural Stress (23°C)	35.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	65	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°C	2.0	kJ/m ²	
-20°C	3.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	°C	ISO 75-2/A
Vicat Softening Temperature	76.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	200 to 220	°C	
Mold Temperature	40.0 to 50.0	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	2.0 mm/min		

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