

RIALFILL CE 02 SN 40 C3

Polypropylene Impact Copolymer

RIALTI Srl

Message:

Polypropylene copolymer impact modified 40% filled with calcium carbonate thermal stabilization of process. Low flowability suitable for injection molding and extrusion.

Excellent impact strength and tenacity properties up to low temperature (still -40°C), good dimensional stability. Available in the versions natural and colored as per sample.

General Information			
Filler / Reinforcement	Calcium Carbonate,40% Filler by Weight		
Additive	Impact Modifier		
Features	Good Dimensional Stability		
	Good Thermal Stability		
	High Impact Resistance		
	Impact Copolymer		
	Impact Modified		
Appearance	Low Flow		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.95	%	
Flow	0.95	%	
Water Absorption ¹ (23°C, 24 hr)	0.020	%	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)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	18.0	MPa	

Break, 23°C	16.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	3.0	%	
Break, 23°C	> 350	%	
Flexural Modulus ² (23°C)	2000	MPa	ISO 178
Flexural Stress (23°C)	34.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°C	4.5	kJ/m ²	
-20°C	6.0	kJ/m ²	
23°C	65	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	103	°C	ISO 75-2/B
1.8 MPa, Unannealed	57.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	142	°C	ISO 306/A50
--	68.0	°C	ISO 306/B50
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	210 to 230	°C	
Mold Temperature	30.0 to 40.0	°C	
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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