

RIALFILL CE 02 S 22 T0

Polypropylene Impact Copolymer

RIALTI Srl

Message:

Polypropylene copolymer impact modified, 22% filled with ultra-thin talc, themal stabilization of process.
Excellent impact strenght and tenacity properties up to low temperatures, good dimensional stability. Available in the versions natural and colored as per sample. Low flowability suitable for injection molding and extrusion.

General Information			
Filler / Reinforcement	Talc,22% Filler by Weight		
Additive	Impact Modifier		
Features	Good Dimensional Stability		
	Good Thermal Stability		
	High Impact Resistance		
	Impact Copolymer		
	Impact Modified		
Appearance	Low Flow		
	Colors Available		
Forms	Natural Color		
	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	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	1.2	%	
Flow	1.2	%	
Water Absorption ¹ (23°C, 24 hr)	0.020	%	ISO 62
Ash Content	22	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	20.0	MPa	ISO 527-2/20
Tensile Strain			ISO 527-2/20
Yield, 23°C	5.0	%	
Break, 23°C	> 350	%	

Flexural Modulus ² (23°C)	1900	MPa	ISO 178
Flexural Stress (23°C)	30.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	50	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-40°C	3.5	kJ/m ²	
-20°C	5.0	kJ/m ²	
23°C	20	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	141	°C	ISO 306/A50
--	64.0	°C	ISO 306/B50
CLTE - Flow	7.0E-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	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	40.0 to 50.0	°C	
Injection Rate	Fast		
NOTE			
1.	50%RH		
2.	2.0 mm/min		

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