

RIALFLAME POLYPROPYLENE 10% TALC V2

Polypropylene Homopolymer

RIALTI Srl

Message:

Self-extinguishing compound charged at 10% talc answering to the classification V2 (free from PBDE) of UL (file UL E 178416)

Main properties: retarding to the flame with extinction contained time: high flowability; good impact strength up to low temperatures and dimensional stability.

General Information			
Filler / Reinforcement	Talc,10% Filler by Weight		
Features	Flame Retardant		
	Good Dimensional Stability		
	Good Impact Resistance		
	High Flow		
	Homopolymer		
	Low Temperature Impact Resistance		
	Self Extinguishing		
UL File Number	E178416		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.990	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.4	%	
Flow	1.4	%	
Ash Content	10	%	ISO 3451
Needle Flame Test ¹ (150°C)	Qualified		IEC 60695-2-2
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	69		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	25.0	MPa	
Break, 23°C	20.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	7.0	%	
Break, 23°C	100	%	
Flexural Modulus ² (23°C)	1500	MPa	ISO 178
Flexural Stress (23°C)	35.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	70	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	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	54.0	°C	ISO 75-2/A
Vicat Softening Temperature	76.0	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 335
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-2		
3.00 mm	V-2		
Glow Wire Flammability Index ³			IEC 60695-2-12
1.00 mm	850	°C	
2.00 mm	850	°C	
4.00 mm	850	°C	
Glow Wire Ignition Temperature (2.00 mm)	775	°C	IEC 60695-2-13
Oxygen Index	25	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	180 to 200	°C	
Mold Temperature	30.0 to 40.0	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	Method A-B		
2.	2.0 mm/min		
3.	Qualified		

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