

RIALFLAME H V0HF 15 S

Polypropylene Homopolymer

RIALTI Srl

Message:

Polypropylene homopolymer compound flame retardanted; classifiable, according to the norms of UL94, V0 up to 1.5mm. Totally halogen and heavy metals free, excellent properties of flame reaction with few emission of smoke at low density and opacity.
Good impact strength and general properties, high flowability for injection molding in applications for the electric and electronic field. Available in natural version and colored as per sample.

General Information			
Features	Flame Retardant		
	Good Impact Resistance		
	Halogen Free		
	High Flow		
	Homopolymer		
	Low Smoke Emission		
Uses	Electrical/Electronic Applications		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
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)	15	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.5	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20
Yield, 23°C	30.0	MPa	
Break, 23°C	21.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	3.0	%	
Break, 23°C	21	%	
Flexural Modulus ¹ (23°C)	2700	MPa	ISO 178
Flexural Stress (23°C)	48.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	20	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	2.3	kJ/m ²	ISO 180/1A
Aging	Nominal Value	Unit	Test Method
Accelerated Oven Aging (150°C)	6.3	day	ISO 4577
Needle Flame Test ² (2.00 mm)	Pass		IEC 60695-2-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	62.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°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-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
2.00 mm	960	°C	
4.00 mm	960	°C	
Glow Wire Ignition Temperature (2.00 mm)	775	°C	IEC 60695-2-13
Oxygen Index	32	%	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		
NOTE			
1.	2.0 mm/min		
2.	Method A-B		

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