

RIALFLAME H V0S 07 HW 30 G

Polypropylene Homopolymer

RIALTI Srl

Message:

Self-extinguishing homopolymer halogenated (UL-94: V-0) polypropylene compound 30% glass fiber reinforced.
Stabilized for use in temperature and in contact with hot metallic parts.
Excellent mechanical properties and flame reaction in a wide thermal range; indicated for injection molding of parts destined to electric-lighting sector.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Good Thermal Stability		
	Halogenated		
	Homopolymer		
	Self Extinguishing		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.40	%	
Ash Content	30	%	ISO 3451
Accelerated Oven Aging (150°C)	16.7	day	ISO 4577
Needle Flame Test ¹ (2.00 mm)	Pass		IEC 60695-2-2
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	82		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	75.0	MPa	ISO 527-2/20
Tensile Strain (Break, 23°C)	6.0	%	ISO 527-2/20
Flexural Modulus ² (23°C)	8000	MPa	ISO 178
Flexural Stress (23°C)	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A

-20°C	8.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	145	°C	ISO 75-2/A
Vicat Softening Temperature	130	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 335
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
4.00 mm	960	°C	
Glow Wire Ignition Temperature (2.00 mm)	800	°C	IEC 60695-2-13
Oxygen Index	30	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	200 to 220	°C	
Mold Temperature	40.0 to 50.0	°C	
NOTE			
1.	Method A-B		
2.	2.0 mm/min		

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