

RIALFLAME B V0H 15 H 20 T

Polypropylene

RIALTI Srl

Message:

Polypropylene self-extinguishing compound, classifiable according to the norms of UL-94, file E178416, V-0 up to 1.5mm. halogen content, free from PBDE and PBB, conforms to RoHS.
Specific thermal stabilization of use at high application temperature.
High flowability, excellent dimensional stability, good compromise between stiffness and impact strength, specific grade for injection molding, available in natural and colored as per sample.

General Information			
UL YellowCard	E178416-257956		
Features	Good Dimensional Stability		
	Good Impact Resistance		
	Good Stiffness		
	Good Thermal Stability		
	High Flow		
	Low Halogen Content		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
UL File Number	E178416		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	1.0	%	
Ash Content	20	%	ISO 3451
Accelerated Oven Aging (150°C)	20.8	day	ISO 4577
Glow Wire Test	Pass		IEC 60695-2-12
Needle Flame Test ¹ (2.00 mm)	Pass		IEC 60695-2-2
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	72		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/20

Yield, 23°C	22.0	MPa	
Break, 23°C	20.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	3.0	%	
Break, 23°C	10	%	
Flexural Modulus ² (23°C)	2800	MPa	ISO 178
Flexural Stress (23°C)	37.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-20°C	2.5	kJ/m ²	
23°C	2.9	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	62.0	°C	ISO 75-2/A
Vicat Softening Temperature	80.0	°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 ³	V-0		
3.00 mm	V-0		
Glow Wire Ignition Temperature	725	°C	IEC 60695-2-13
Oxygen Index ⁴	28	%	ISO 4589-2
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	30.0 to 40.0	°C	
Injection Rate	Fast		
NOTE			
1.	Method A-B		
2.	2.0 mm/min		
3.	up to 1.5mm		
4.	23°C		

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