

RIALFLAME B V2Y 15 SL5

Polypropylene

RIALTI Srl

Message:

Polypropylene self-extinguishing compound, classifiable according to the norms of IEC 60335 (IV editions) V-2: GWFI (>850°C) e GWIT (775°C) low halogen content, free from PBDE. Free from antimony and heavy metals in agreement to RoHS directive 2002/95/CE.
This product offers a remarkable stability to light for exposure of long duration to sight on the outside, and a good compromise between tenacity and dimensional stability; available in the versions natural and colored as per sample.

General Information			
Features	Antimony Free		
	Good Dimensional Stability		
	Good UV Resistance		
	Low Halogen Content		
	Self Extinguishing		
Agency Ratings	EU 2002/72/EC		
	IEC 60335-1		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm³	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	1.4	%	
Flow	1.4	%	
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	30.0	MPa	
Break, 23°C	20.0	MPa	
Tensile Strain			ISO 527-2/20
Yield, 23°C	7.0	%	
Break, 23°C	300	%	

Flexural Modulus ¹ (23°C)	1500	MPa	ISO 178
Flexural Stress (23°C)	40.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°C	1.8	kJ/m ²	
-20°C	2.1	kJ/m ²	
23°C	5.0	kJ/m ²	
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)	55.0	°C	ISO 75-2/A
Vicat Softening Temperature	82.0	°C	ISO 306/B50
Ball Pressure Test	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	850	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	725	°C	IEC 60695-2-13
Oxygen Index ⁴	24	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	180 to 190	°C	
Mold Temperature	30.0 to 40.0	°C	
NOTE			
1.	2.0 mm/min		
2.	Method A-B		
3.	INDONEO		
4.	23°C		

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