Technical Data Sheet

BADAPRENE® | TPV 70A 5502 FR UV

(PP+EPDM)-FR(17) COMPOUND

Flame retardant TPV injection moulding grade

Properties	Test conditions	Test method	Unit	dry as molded
Physical properties				
Hardness		DIN ISO 48-4 DIN ISO 48-4	Shore A Shore D	70 -
Density		ISO 1183	g/cm³	1.25
Overmolding capability				-
Mechanical Properties				
Tensile Strength	Parallel, 200 mm/min Across, 200 mm/min	DIN 53504 DIN 53504	MPa MPa	4.2 -
Elongation at break	Parallel, 200 mm/min Across, 200 mm/min	DIN 53504 DIN 53504	% %	450 -
Tear Strength	Parallel Across	DIN ISO 34 DIN ISO 34	N/mm N/mm	- -
Abrasion loss		DIN ISO 4649	mm³	-
Thermal Properties				
Compression set	23 °C/72 h 70 °C/24 h 100 °C/24 h	DIN ISO 815-1 DIN ISO 815-1 DIN ISO 815-1	% % %	- 46 -
Thermal conductivity	Test plate 2 mm	DIN 52612-1	W/(m*K)	-
Flammability		UL94 UL94 UL94 UL94	Wall thickness Rating Wall thickness Rating	1.5 V-0 3.0 V-0
Glow wire test GWIT		IEC-60695-2-13 IEC-60695-2-13 IEC-60695-2-13 IEC-60695-2-13	Wall thickness mm Temperature °C Wall thickness mm Temperature °C	- - - -
Glow wire test GWFI		IEC-60695-2-12 IEC-60695-2-12 IEC-60695-2-12 IEC-60695-2-12	Wall thickness mm Temperature °C Wall thickness mm Temperature °C	- - - -
Electrical Properties				
Spec. Volume Resistivity		IEC-62631-3-1	Ohm*cm	-
Spec. Surface Resistivity		IEC-62631-3-2	Ohm	-
Other Data				
Melt volume rate (MVR)	Value Temperature Test load	ISO 1133 ISO 1133 ISO 1133	cm³/10min °C kg	- - -
Processing injection molding				
Melt temperature			°C	190 - 220
Mold temperature			°C	20 - 40
Guide Value Moisture			%	< 0.1
Drying temperature			°C	60 - 70
Guide Value Drying time			h	2 - 3

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