Technical Data Sheet

BADAPRENE® | TPV 50D 5293 GF15

EPDM/PP-COMPOUND

Thermoplastic elastomer based on TPV, easy flowing injection molding grade, with 15% glass fiber reinforcement, good dyeability

Properties	Test conditions	Test method	Unit	dry as molded
Physical properties				
Hardness		DIN ISO 48-4 DIN ISO 48-4	Shore A Shore D	- 50
Density		ISO 1183	g/cm³	1.03
Overmolding capability				PP
Mechanical Properties				
Tensile Modulus	23°C, 1 mm/Min	ISO 527-1/2	MPa	1600
Tensile Strength at yield	23°C, 50 mm/Min	ISO 527-1/2	MPa	-
Tensile strain at yield	23°C, 50 mm/Min	ISO 527-1/2	%	-
Nominal strain at break	23°C, 50 mm/Min	ISO 527-1/2	%	-
Tensile stress at break	23°C, 5 mm/Min	ISO 527-1/2	MPa	10
Tensile strain at break	23°C, 5 mm/Min	ISO 527-1/2	%	18
Flexural Modulus	23°C	ISO 178	MPa	-
Flexural Strength	23°C	ISO 178	MPa	-
Charpy Impact Strength	23°C -30°C	ISO 179/1eU ISO 179/1eU	kJ/m² kJ/m²	- -
Charpy Notched Impact Strength	23°C -30°C	ISO 179/1eA ISO 179/1eA	kJ/m² kJ/m²	- -
Izod Notched Impact Strength	23°C -30°C	ISO 180/1A ISO 180/1A	kJ/m² kJ/m²	- -
Ball indentation hardness	358 N	ISO 2039-1	MPa	-
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	% % %	- - -
Thermal conductivity	Test plate 2 mm	DIN 52612-1	W/(m*K)	-
Flammability		UL94 UL94 UL94 UL94	Wall thickness Rating Wall thickness Rating	- - - -
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				

HongRong Engineering Plastics Co.,Ltd.
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Properties	Test conditions	Test method	Unit	dry as molded
Melt volume rate (MVR)	Value Temperature Test load	ISO 1133 ISO 1133 ISO 1133	cm^3/10min °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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