



*get the difference*

# BADAPRENE® | TPV 50D 5293

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
<b>Physical properties</b>				
Hardness		DIN ISO 7619-1 DIN ISO 7619-1	Shore A Shore D	- 50
Density		ISO 1183	g/cm <sup>3</sup>	1.03
Overmolding capability				PP
<b>Mechanical Properties</b>				
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 yield	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/m <sup>2</sup> kJ/m <sup>2</sup>	- -
Charpy Notched Impact Strength	23°C -30°C	ISO 179/1eA ISO 179/1eA	kJ/m <sup>2</sup> kJ/m <sup>2</sup>	- -
Izod Notched Impact Strength	23°C -30°C	ISO 180/1A ISO 180/1A	kJ/m <sup>2</sup> kJ/m <sup>2</sup>	- -
Ball indentation hardness	358 N	ISO 2039-1	MPa	-
<b>Thermal Properties</b>				
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	- - - -
<b>Electrical Properties</b>				
Spec. Volume Resistivity		IEC-62631-3-1	Ohm*cm	-



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Properties	Test conditions	Test method	Unit	dry as molded
Spec. Surface Resistivity		IEC-62631-3-2	Ohm	-
<b>Other Data</b>				
Melt volume rate (MVR)	Value Temperature Test load	ISO 1133 ISO 1133 ISO 1133	cm <sup>3</sup> /10min °C kg	- - -
<b>Processing injection molding</b>				
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

Issue date 08.03.2019

**Legend**

- = not tested  
NB = No break

Based on our current state of knowledge, this data represents reference values and, unless otherwise stated, stands for uncoloured material. Therefore, it does not constitute a warranty of certain properties, more particularly it is no material specification. It is the responsibility of the processors to check the suitability of the material for a particular application as well as compliance with statutory regulations and intellectual property rights. The data stated above may be modified at any time without prior notice. The information does not imply any contractual obligation on our part, any liability is expressly excluded.