

SABIC® PPcompound 8501

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 8501 is an elastomer-modified mineral filled Polypropylene for automotive painted exterior applications. Its low density and excellent stiffness impact balance makes it suited for weight reduction designs. Typical applications include automotive exterior parts such as zero gap automotive bumper applications with complex and large shapes.

SABIC® PPcompound 8501 is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral filler		
Additive	Impact modifier		
Features	Impact modification		
	Low density		
	Sprayable		
Uses	Car anti-collision bar		
	Application in Automobile Field		
	Automotive exterior parts		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.0 - 1.1	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/1A/50
Yield, injection molding	18.0	MPa	ISO 527-2/1A/50
Fracture, injection molding	12.0	MPa	ISO 527-2/1A/50
Tensile Strain (Break, Injection Molded)	100	%	ISO 527-2/1A/50
Flexural Modulus ¹ (Injection Molded)	1250	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	No Break		ISO 179/1eA
Notched Izod Impact			ISO 180/4A
-20°C, injection molding	10	kJ/m ²	ISO 180/4A
0°C, injection molding	No Break		ISO 180/4A

23°C, injection molding	No Break		ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	98.0	°C	ISO 75-2/B
Vicat Softening Temperature	128	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	6.5E-5	cm/cm/°C	ASTM D696
23 to 80°C	9.5E-5	cm/cm/°C	ASTM D696
NOTE			

1. Method I (three-point load)

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