

SABIC® PPcompound 8502

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 8502 is a modified mineral filled Polypropylene for automotive exterior applications. This material combines an excellent paint adhesion, high modulus, high impact and low density.

SABIC® PPcompound 8502 is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	High Impact Resistance		
	Impact Modified		
	Low Density		
	Paintable		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.80	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	19.0	MPa	
Break, 3.20 mm, Injection Molded	12.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	40	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	1600	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 Strength			ISO 180/4A
-20°C, Injection Molded	9.0	kJ/m ²	
0°C, Injection Molded	No Break		

23°C, Injection Molded		No Break	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	100	°C	ISO 75-2/B
Vicat Softening Temperature	130	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	6.0E-5	cm/cm/°C	
23 to 80°C	9.0E-5	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

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Recommended distributors for this material

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