

SABIC® PPcompound 7450

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 7450 is a mineral filled modified polypropylene typically used in automotive exterior applications. Material properties include good flow, high impact, good stiffness and low CLTE. This material is available as compound but can also be obtained by combining SABIC® PPcompound MB7450 and SABIC® PP 90910 on the molding machine in a 1 to 1 ration.

SABIC® PPcompound 7450 is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Good Flow		
	Good Stiffness		
	High Impact Resistance		
	Impact Modified		
	Low CLTE		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.95	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	17.0	MPa	
Break, 3.20 mm, Injection Molded	14.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	150	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	No Break		ISO 179/1eU

Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	30	kJ/m²	
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)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	120	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	6.0E-5	cm/cm/°C	
23 to 80°C	1.0E-4	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

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