

SABIC® PPcompound 57F9722

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 57F9722 is an esthetic UV stabilized automotive exterior grade. This talcum filled copolymer combines good scratch resistance with high stiffness and good thermal dimensional stability.

SABIC® PPcompound 57F9722 is a designated automotive grade.

General Information			
Filler / Reinforcement	Talc		
Additive	Impact Modifier		
	UV Stabilizer		
Features	Copolymer		
	Good Dimensional Stability		
	Good UV Resistance		
	High Stiffness		
	Impact Modified		
	Scratch Resistant		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	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)	1.0	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	28.0	MPa	
Break, 3.20 mm, Injection Molded	22.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	45	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	2200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C, Injection Molded)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	16	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	2.3	kJ/m ²	
0°C, Injection Molded	3.5	kJ/m ²	
23°C, Injection Molded	7.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
Vicat Softening Temperature	140	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	8.5E-5	cm/cm/°C	
23 to 80°C	1.1E-4	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

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