

SABIC® PPcompound 7716

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 7716 is a mineral filled modified polypropylene. This material combines high scratch resistance with a high stiffness, medium impact and good flow. This material has a broad processing window combined with good esthical performance and excellent UV exterior stabilization. Typical applications include esthetical automotive exterior trim such as lateral trims, window trims
SABIC® PPcompound 7716 is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
	UV Stabilizer		
Features	Good Flow		
	Good UV Resistance		
	High Scratch Resistance		
	High Stiffness		
	Impact Modified		
	Medium Impact Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Exterior Trim		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	26	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)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/1A/50
Yield, Injection Molded	23.0	MPa	
Break, Injection Molded	17.0	MPa	
Tensile Strain (Break, Injection Molded)	60	%	ISO 527-2/1A/50
Flexural Modulus ¹ (Injection Molded)	1600	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C, Injection Molded)	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	40	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	3.0	kJ/m ²	
0°C, Injection Molded	5.0	kJ/m ²	
23°C, Injection Molded	8.0	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	130	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	7.0E-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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Recommended distributors for this material

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