

SABIC® PPcompound 7175U

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 7175U is an elastomer-modified mineral filled Polypropylene for automotive exterior applications. The material is UV stabilized.
SABIC® PPcompound 7175U is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral filler		
Additive	Impact modifier		
	UV stabilizer		
Features	Impact modification		
	Good UV resistance		
Uses	Application in Automobile Field		
	Automotive exterior parts		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	17	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.90	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20mm, injection molding	19.5	MPa	ISO 527-2/5/50
Fracture, 3.20mm, injection molding	13.5	MPa	ISO 527-2/5/50
Tensile Strain (Break, 3.20 mm, Injection Molded)	80	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	1400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/4A
-20°C, injection molding	5.5	kJ/m ²	ISO 180/4A
0°C, injection molding	50	kJ/m ²	ISO 180/4A
23°C, injection molding	60	kJ/m ²	ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	100	°C	ISO 75-2/B
CLTE - Flow			ASTM D696

-30 to 30°C	7.5E-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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Recommended distributors for this material

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