

SABIC® PPcompound 2605-1

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 2605/1 is a mineral filled modified polypropylene. Typical material properties include an excellent impact stiffness balance with a low density. This material was optimized for low smell, low emission and good paintability. Typical applications include painted automotive interior parts such as trims and dashboards.

SABIC® PPcompound 2605/1 is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Impact Modified		
	Low Density		
	Low Emissions		
	Low to No Odor		
	Paintable		
Uses	Automotive Applications		
	Automotive Interior Parts		
	Automotive Interior Trim		
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)			ISO 1133
230°C/2.16 kg	5.0	g/10 min	
230°C/5.0 kg	23	g/10 min	
Molding Shrinkage (24 hr)	1.2	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	21.0	MPa	
Break, 3.20 mm, Injection Molded	20.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	150	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	1400	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	5.5	kJ/m ²	
0°C, Injection Molded	10	kJ/m ²	
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	140	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	9.0E-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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