

SABIC® PPcompound 5405

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 5405 is a modified polypropylene compound. Material properties include excellent flow, high impact and good stiffness. The material exhibits excellent esthetical behaviour with very low tiger stripes visibility. Typical applications include automotive exterior parts such as large complex shaped bumpers and trims which can be painted, partially painted or unpainted.

SABIC® PPcompound 5405 is a designated automotive grade.

General Information			
Additive	Impact Modifier		
Features	Good Flow		
	Good Stiffness		
	High Impact Resistance		
	Impact Modified		
	Paintable		
Uses	Automotive Applications		
	Automotive Bumper		
	Automotive Exterior Parts		
	Automotive Exterior Trim		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.2	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	20.0	MPa	
Break, 3.20 mm, Injection Molded	18.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	300	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	1200	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	8.0	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)	95.0	°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	1.3E-4	cm/cm/°C	
NOTE			

1. Method I (3 point load)

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