SABIC® PPcompound 9150

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® Prompound 9150 is a mineral filled modified polypropylene. This material combines high scratch resistance, high stiffness, good impact and high flow. This material has a property profile that fullfills Ford Interior requirements. Typical applications include esthetical automotive interior parts such as instrument panels, lower and upper dashboard, door panels and trim.

SABIC® PPcompound 9150 is a designated automotive grade.

Filler / Reinforcement Mineral Additive Impact Modifier Features Good Impact Resistance High Flow High Flow High Stiffness High Stiffness Impact Modified Impact Modified Uses Automotive Applications Automotive Instrument Panel Automotive Interior Parts Automotive Interior Trim Automotive Interior Trim Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 1.00 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (230°C/2-16 kg) 12 g/10 min ISO 1133 Molding Shrinkage (24 hr) 0.90 % Internal Method Hardness Nominal Value Unit Test Method Shore Hardness (Shore D, Injection Molded) 65 ISO 868 Mechanical Nominal Value Unit Test Method Fieszile Stress 150 527-2/1A/50 Yield, Injection Molded 180 527-2/1A/50 Yield, Injection Mol	General Information					
Features Good Impact Resistance High Flow High Scratch Resistance High Stiffness Impact Modified Uses Automotive Applications Automotive Interior Parts Automotive Interior Trim Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 1.00 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Filler / Reinforcement	Mineral				
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Automotive Interior Parts Automotive Interior Trim Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 12 g/10 min ISO 1183 Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 12 g/10 min ISO 1183 Molding Shrinkage (24 hr) 0.90 % Internal Method Hardness Nominal Value Unit Test Method Test Method Shore Hardness (Shore D, Injection Molded) Shore Hardness (Shore D, Injection Molded) Tensile Stress Vield, Injection Molded 22.0 MPa Break, Injection Molded) 18.0 MPa Tensile Strain (Break, Injection Molded) 30 MPa STM D790	Uses	Automotive Applications				
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Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 1.00 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 12 g/10 min ISO 1133 Molding Shrinkage (24 hr) 0.90 % 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 18.0 MPa Break, Injection Molded) 30 % ISO 527-2/1A/50 Flexural Modulus 1 (Injection Molded) 2000 MPa ASTM D790		Automotive Interior Parts				
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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 22.0 MPa Break, Injection Molded 18.0 MPa Tensile Strain (Break, Injection Molded) 30 % ISO 527-2/1A/50 Flexural Modulus ¹ (Injection Molded) 2000 MPa ASTM D790		12	g/10 min	ISO 1133		
Shore Hardness (Shore D, Injection Molded) 65 Mechanical Nominal Value Unit Test Method Tensile Stress Yield, Injection Molded 22.0 MPa Break, Injection Molded 18.0 MPa Tensile Strain (Break, Injection Molded) 30 MPa Flexural Modulus ¹ (Injection Molded) 2000 MPa ASTM D790	Molding Shrinkage (24 hr)	0.90	%	Internal Method		
Molded) 65 Mechanical Nominal Value Unit Test Method Tensile Stress Yield, Injection Molded 22.0 MPa Break, Injection Molded 18.0 MPa Tensile Strain (Break, Injection Molded) 30 % ISO 527-2/1A/50 Flexural Modulus 1 (Injection Molded) 2000 MPa ASTM D790	Hardness	Nominal Value	Unit	Test Method		
Tensile Stress Yield, Injection Molded Break, Injection Molded 18.0 MPa Tensile Strain (Break, Injection Molded) 30 MPa ISO 527-2/1A/50 MPa ISO 527-2/1A/50 MPa ASTM D790		65		ISO 868		
Yield, Injection Molded22.0MPaBreak, Injection Molded18.0MPaTensile Strain (Break, Injection Molded)30%ISO 527-2/1A/50Flexural Modulus ¹ (Injection Molded)2000MPaASTM D790	Mechanical	Nominal Value	Unit	Test Method		
Break, Injection Molded 18.0 MPa Tensile Strain (Break, Injection Molded) 30 % ISO 527-2/1A/50 Flexural Modulus ¹ (Injection Molded) 2000 MPa ASTM D790	Tensile Stress			ISO 527-2/1A/50		
Tensile Strain (Break, Injection Molded) 30 % ISO 527-2/1A/50 Flexural Modulus ¹ (Injection Molded) 2000 MPa ASTM D790	Yield, Injection Molded	22.0	MPa			
Flexural Modulus ¹ (Injection Molded) 2000 MPa ASTM D790	Break, Injection Molded	18.0	MPa			
· · · · · · · · · · · · · · · · · · ·	Tensile Strain (Break, Injection Molded)	30	%	ISO 527-2/1A/50		
Impact Nominal Value Unit Test Method	Flexural Modulus ¹ (Injection Molded)	2000	MPa	ASTM D790		
	Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (23°C, Injection Molded) 18 kJ/m² ISO 179/1eA		18	kJ/m²	ISO 179/1eA		

Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	5.0	kJ/m²	
0°C, Injection Molded	8.0	kJ/m²	
23°C, Injection Molded	20	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 M	Pa,		
Unannealed)	120	°C	ISO 75-2/B
Vicat Softening Temperature	130	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	6.0E-5	cm/cm/°C	
23 to 80°C	9.0E-5	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

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