SABIC® PPcompound 7700

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 7700 is a mineral filled modified polypropylene. This material combines high stiffness, good impact and high flow with good paintability. This material has a very broad processing window combined with good esthical performance. Typical applications include painted and non esthetic automotive interior parts such as instrument panels, lower and upper dashboard, door panels and trim.
SABIC® PPcompound 7700 is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral filler		
Additive	Impact modifier		
Features	Impact modification Rigidity, high Impact resistance, good Sprayable High liquidity		
Uses	Application in Automobile Field Car interior parts Car interior equipment Car dashboard		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.04	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.75	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Injection Molded)	60		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2/5/50
Yield, 3.20mm, injection molding	22.0	MPa	ISO 527-2/5/50
Fracture, 3.20mm, injection molding	17.0	MPa	ISO 527-2/5/50
Tensile Strain (Break, 3.20 mm, Injection Molded)	500	%	ISO 527-2/5/50
Flexural Modulus [1] (Injection Molded)	1900	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)	20	kJ/m^2	ISO 179/1eU
Notched Izod Impact			ISO 180/4A
-20°C, injection molding	6.0	kJ/m^2	ISO 180/4A
0°C, injection molding	6.0	kJ/m^2	ISO 180/4A
23°C, injection molding	20	kJ/m^2	ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	105	°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	ASTM D696
23 to 80°C	8.0E-5	cm/cm/°C	ASTM D696
NOTE			
1.	Method I (three-point load)		

Recommended distributors for this material

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