SABIC® PPcompound 6504

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 6504 is a mineral filled modified polypropylene. material properties include high flow, very high impact, good stiffness and low shrinkage/CLTE. Typical applications include automotive exterior parts such as trims and and bumpers. It can be used in painted and unpainted applications with UV stabilization added on demand.
SABIC® PPcompound 6504 is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Good Stiffness High Flow Impact Modified Low CLTE Low Shrinkage Paintable Ultra High Impact Resistance		
Uses	Automotive Applications Automotive Bumper Automotive Exterior Parts Automotive Exterior Trim		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.970	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	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)	57		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	16.0	MPa	
Break, 3.20 mm, Injection Molded	11.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	150	%	ISO 527-2/5/50
Flexural Modulus [1] (Injection Molded)	950	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	12	kJ/m^2	
0°C, Injection Molded	No Break		
23°C, Injection Molded	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Vicat Softening Temperature	115	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	7.0E-5	cm/cm/°C	
23 to 80°C	1.0E-4	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

Recommended distributors for this material

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