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	10	- /10	100 1122
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/m²	
0°C, Injection Molded	No Break		
23°C, Injection Molded	No Break		
Thermal	Nominal Value	Unit	Test Method
Thermal Heat Deflection Temperature (0.45 MPa,	Nominal Value	Unit	Test Method
	Nominal Value 80.0	Unit ℃	Test Method ISO 75-2/B
Heat Deflection Temperature (0.45 MPa,			
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature	80.0	°C	ISO 75-2/B ISO 306/A
Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature CLTE - Flow	80.0 115	°C °C	ISO 75-2/B ISO 306/A
Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature CLTE - Flow -30 to 30°C	80.0 115 7.0E-5	°C °C cm/cm/°C	ISO 75-2/B ISO 306/A

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

