SABIC® PPcompound 5450

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 5450 is a low density modified polypropylene. Material properties include very high flow, high impact and high stiffness with low shrinkage and CLTE and good process-ability. The material exhibits good esthetical behaviour with low tiger stripes visibility. Typical applications include automotive exterior parts such as zero gap automotive bumper applications with complex and large shapes. It can be used in painted and unpainted applications with UV stabilization added on demand.
SABIC® PPcompound 5450 is a designated automotive grade.

General Information			
Additive	Impact Modifier		
Features	Good Processability High Flow High Impact Resistance High Stiffness Impact Modified Low CLTE Low Density Low Shrinkage Paintable		
Uses	Automotive Applications Automotive Bumper Automotive Exterior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.930	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.70	%	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	22.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	500	%	ISO 527-2/5/50

Flexural Modulus [1] (Injection Molded)	1000	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	No Break		
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)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	120	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	7.0E-5	cm/cm/°C	
23 to 80°C	8.0E-5	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

Recommended distributors for this material

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