SABIC® PPcompound 3720E

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 3720E is a mineral filled modified polypropylene. Material properties include an excellent stiffness and impact ratio with a low emission and fogging behaviour. Typical applications include non esthetical automotive interior parts.
SABIC® PPcompound 3720E is a designated automotive grade

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Impact Modified Low Emissions Low to No Fogging		
Uses	Automotive Applications Automotive Interior Parts		
Forms	Pellets		
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)	18	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.1	%	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Injection Molded)	71		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	28.0	MPa	
Break, 3.20 mm, Injection Molded	25.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	45	%	ISO 527-2/5/50
Flexural Modulus [1] (Injection Molded)	2200	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C, Injection Molded)	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	18	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	3.0	kJ/m²	

0°C, Injection Molded	3.5	kJ/m²	
23°C, Injection Molded	6.0	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
Vicat Softening Temperature	145	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	8.0E-5	cm/cm/°C	
23 to 80°C	1.1E-4	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

Recommended distributors for this material

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