

SABIC® PPcompound 7690

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 7690 is a very high flow mineral filled modified polypropylene. Material properties include very high flow, high stiffness and a good impact resistance. Typical applications include automotive exterior parts such as bumpers, bumper strips and exterior trim. It can be used in painted and unpainted applications with UV stabilization added on demand.

SABIC® PPcompound 7690 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	Car anti-collision bar		
	Application in Automobile Field		
	Automotive exterior parts		
	Car exterior decoration		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.85	%	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	16.0	MPa	ISO 527-2/5/50
Tensile Strain (Break, 3.20 mm, Injection Molded)	100	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	1600	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)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/4A
-20°C, injection molding	5.0	kJ/m ²	ISO 180/4A
0°C, injection molding	7.0	kJ/m ²	ISO 180/4A
23°C, injection molding	No Break		ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
Vicat Softening Temperature	135	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	6.0E-5	cm/cm/°C	ASTM D696
23 to 80°C	9.0E-5	cm/cm/°C	ASTM D696
NOTE			
1.	Method I (three-point load)		

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