

# SABIC® PPcompound 2632

Polypropylene

Saudi Basic Industries Corporation (SABIC)

## Message:

A grade with a high stiffness, an excellent impact resistance and a low expansion coefficient, specially developed for bumpers which have to fit tightly against the car body.

General Information			
Filler / Reinforcement	Mineral filler		
Features	Rigidity, high		
	Impact resistance, good		
Uses	Car anti-collision bar		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	6.5	g/10 min	ISO 1133
230°C/5.0 kg	28	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20mm	17.0	MPa	ISO 527-2/5/50
Fracture, 3.20mm	14.0	MPa	ISO 527-2/5/50
Tensile Strain (Break, 3.20 mm)	100	%	ISO 527-2/5/50
Flexural Modulus <sup>1</sup>	1400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	No Break		ISO 179
Charpy Unnotched Impact Strength (-40°C)	No Break		ISO 179
Notched Izod Impact			ISO 180/3A
-40°C	7.0	kJ/m <sup>2</sup>	ISO 180/3A
-20°C	25	kJ/m <sup>2</sup>	ISO 180/3A
0°C	No Break		ISO 180/3A
23°C	No Break		ISO 180/3A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	95.0	°C	ISO 75-2/B
Vicat Softening Temperature	125	°C	ISO 306/A50

CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Additional Information			
Mold Shrinkage, SABIC Method: 0.8%			
NOTE			
1.	Method I (three-point load)		

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