SABIC® PPcompound 5292

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® Proompound 5292 is a modified polypropylene compound. Material properties include excellent low temperature impact and good stiffness at low density. Typical applications are automotive exterior parts like bumpers and trim.

SABIC® Proompound 5292 is a designated automotive grade.

General Information					
UL YellowCard	E111275-306884				
Additive	Impact Modifier				
Features	Good Stiffness				
	Impact Modified				
	Low Density				
	Low Temperature 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	0.920	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR) (230°C/2.16					
kg)	9.0	g/10 min	ISO 1133		
Molding Shrinkage (24 hr)	1.3	%	Internal Method		
Hardness	Nominal Value	Unit	Test Method		
Shore Hardness (Shore D, Injection Molded)	60		ISO 868		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Stress			ISO 527-2/5/50		
Yield, 3.20 mm, Injection Molded	18.0	MPa			
Break, 3.20 mm, Injection Molded	20.0	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 (- Injection Molded)	.40°С, 50	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength		<u>, </u>	ISO 180/4A
-20°C, Injection Molded	9.0	kJ/m²	
0°C, Injection Molded	No Break		
23°C, Injection Molded	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MI	Pa,		
Unannealed)	95.0	°C	ISO 75-2/B
CLTE - Flow			ASTM D696
-30 to 30°C	8.0E-5	cm/cm/°C	
23 to 80°C	1.3E-4	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

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