

SABIC® PP 56M10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade has a high impact resistance, even at low temperatures, and a high stiffness. It is used in a variety of applications e.g. containers and crates & boxes. It is also used in automotive components, like for example battery cases.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
UL YellowCard	E111275-219025		
Features	Block Copolymer		
	High Impact Resistance		
	High Stiffness		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Battery Cases		
	Containers		
	Crates		
UL File Number	E111275		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.2	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Shore Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1450	MPa	ASTM D638
--	1400	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	26.0	MPa	ASTM D638
Yield	27.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	5.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	
0°C	8.0	kJ/m ²	
23°C	13	kJ/m ²	
Notched Izod Impact			
-20°C	60	J/m	ASTM D256A
0°C	80	J/m	ASTM D256A
23°C	100	J/m	ASTM D256A
-20°C	5.0	kJ/m ²	ISO 180/1A
0°C	7.0	kJ/m ²	ISO 180/1A
23°C	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	90.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	85.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	60.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	152	°C	ASTM D1525, ISO 306/A120 ⁶
--	78.0	°C	ASTM D1525, ISO 306/B120 ⁷
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	testbar 80*10*4mm		
5.	testbar 80*10*4mm		
6.	Rate B (120°C/h), Loading 1 (10 N)		
7.	Rate B (120°C/h), Loading 2 (50 N)		

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