

SABIC® PP 48M10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade has very good flow characteristics, high stiffness and good impact strength. It is suitable for articles with complex shapes, such as crates and boxes, rigid packaging and components for the automotive and electro-technical industries. This grade is also available with a combined processing and antistatic additive package.

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		
Additive	Antistatic Processing Aid		
Features	Antistatic Block Copolymer Good Flow Good Impact Resistance High Stiffness		
Uses	Automotive Applications Crates Electrical/Electronic Applications Household Goods Packaging		
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)	15	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	1500	MPa	ASTM D638
--	1400	MPa	ISO 527-2/1A/1
Tensile Strength			

Yield ²	26.0	MPa	ASTM D638
Yield	26.0	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	7.0	kJ/m ²	
23°C	11	kJ/m ²	
Notched Izod Impact			
-20°C	65	J/m	ASTM D256A
0°C	75	J/m	ASTM D256A
23°C	90	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	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	95.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	90.0	°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			
--	151	°C	ASTM D1525, ISO 306/A120 6 ⁶
--	79.0	°C	ASTM D1525, ISO 306/B120 7 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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