

SABIC® PP 48M40

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This multi-purpose grade has very good flow characteristics, high stiffness and good impact strength. It is formulated with a combined processing and antistatic additive package. 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 in a general purpose additive package.

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

General Information			
Additive	Antistatic Processing Aid		
Features	Antistatic Block Copolymer Good Flow Good Impact Resistance High Stiffness		
Uses	Automotive Applications Crates Electrical/Electronic Applications Packaging Rigid 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 5 ⁶
--	79.0	°C	ASTM D1525, ISO 306/B120 6 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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