

SABIC® PP 57MNK10

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

PP 57MNK10 is a controlled rheology PP grade of medium molecular weight distribution specially developed for producing injection molded articles. This grade has a good impact resistance and high stiffness.

Typical Applications:

PP 57MNK10 can be used for garden furniture and houseware products.

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

General Information			
Additive	Nucleating agent		
Features	Block Copolymer		
	Nucleated		
	Rigidity, high		
	Impact resistance, good		
	Controlled rheology		
Uses	Medium wide molecular weight distribution		
	Furniture		
	Household goods		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1250	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	6.0	kJ/m ²	ISO 179/1eA
23°C	9.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
0°C	5.0	kJ/m ²	ISO 180/1A
23°C	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹			

0.45 MPa, not annealed	85.0	°C	ISO 75-2/Bf
1.8 MPa, not annealed	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	148	°C	ISO 306/A120
--	70.0	°C	ISO 306/B120
NOTE			
1.	80*10*4mm		

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