

SABIC® PP 86MF10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

A grade which is characterized by an optimum combination of stiffness, impact resistance and flow. This grade is also available in a UV-stabilized version.

General Information			
Features	Block Copolymer		
	Rigid, good		
	Impact resistance, good		
	Good liquidity		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	4.7	g/10 min	ISO 1133
230°C/5.0 kg	18	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, 2.00mm	25.0	MPa	ISO 527-2/50
Fracture, 2.00mm	28.0	MPa	ISO 527-2/50
Tensile Strain (Break, 2.00 mm)	500	%	ISO 527-2/50
Flexural Modulus ¹	1130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	No Break		ISO 179
23°C	No Break		ISO 179
Notched Izod Impact			ISO 180/A
-40°C	4.5	kJ/m ²	ISO 180/A
-20°C	6.8	kJ/m ²	ISO 180/A
0°C	14	kJ/m ²	ISO 180/A
23°C	No Break		ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Vicat Softening Temperature	140	°C	ISO 306/A50

CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Additional Information			
Mold Shrinkage, SABIC Method: 1.6%			
NOTE			
1.	Method I (three-point load)		

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