

SABIC® PP 83MF90

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade combines a very high impact strength, even at low temperatures, with a high stiffness and moderate flow properties. It is suitable for injection moulding of technical components and containers exposed to heavy loads and needing a high toughness. This grade is UV-stabilised and also available with 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			
UL YellowCard	E111275-219026		
Additive	UV Stabilizer		
Features	Block Copolymer		
	Good Flow		
	Good UV Resistance		
	High Stiffness		
	Low Temperature Impact Resistance		
	Ultra High Impact Resistance		
	Ultra High Toughness		
Uses	Containers		
UL File Number	E111275		
Forms	Pellets		
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)	1.8	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	10	kJ/m ²	
0°C	40	kJ/m ²	
23°C	75	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A

-20°C	12	kJ/m ²	
0°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹			
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	148	°C	ISO 306/A120
--	68.0	°C	ISO 306/B120
NOTE			
1.	testbar 80*10*4mm		

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