

SABIC® PP 108MF10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 108MF10 is a super high impact copolymer which exhibits an unmatched cold impact resistance, high flow and excellent paint adhesion characteristics. Because of this unique and well balanced property profile our customers commonly use this material for painted car bumpers.

SABIC® PP 108MF10 is a designated automotive grade.

General Information			
UL YellowCard	E111275-219026		
Additive	Nucleating Agent		
Features	High Flow		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Nucleated		
	Paintable		
Uses	Ultra High Impact Resistance		
	Automotive Applications		
Forms	Automotive Bumper		
	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)	10	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			Internal Method
Flow : 24 hr	1.5	%	
24 hr	1.5	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	52		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant : Injection Molded ¹	1000	MPa	ASTM D638
Injection Molded	1000	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield, Injection Molded ²	19.0	MPa	ASTM D638
Yield, Injection Molded	19.0	MPa	ISO 527-2/1A/50
Tensile Elongation			

Yield, Injection Molded ³	8.0	%	ASTM D638
Yield, Injection Molded	8.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C, Injection Molded	No Break		
23°C, Injection Molded	No Break		
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact			
-20°C, Injection Molded	No Break		ASTM D256A
0°C, Injection Molded	No Break		ASTM D256A, ISO 180/1A
23°C, Injection Molded	No Break		ASTM D256A, ISO 180/1A
-20°C, Injection Molded	35	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	130	°C	ASTM D1525, ISO 306/A120 5 ⁴
--	50.0	°C	ASTM D1525, ISO 306/B120 6 ⁵
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	Rate B (120°C/h), Loading 1 (10 N)		
5.	Rate B (120°C/h), Loading 2 (50 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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