

SABIC® PP 86MF97

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP 86MF97 is a grade which is characterised by an optimum combination of stiffness, impact resistance and flow. It is highly UV-stabilised, and therefore commonly used for exterior applications such as car bumpers.

SABIC® PP 86MF97 is a designated automotive grade.

General Information			
UL YellowCard	E111275-219026		
Additive	UV Stabilizer		
Features	Block Copolymer		
	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	Good UV Resistance		
Uses	Automotive Applications		
	Automotive Bumper		
	Automotive Exterior Parts		
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)	4.6	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			Internal Method
Flow : 24 hr	1.6	%	
24 hr	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant : Injection Molded ¹	1050	MPa	ASTM D638
Injection Molded	1000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, Injection Molded)	22.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, Injection Molded)	6.0	%	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, Injection Molded)	No Break		ISO 179/1eU
Notched Izod Impact			
-20°C, Injection Molded	85	J/m	ASTM D256A
0°C, Injection Molded	No Break		ASTM D256A
23°C, Injection Molded	No Break		ASTM D256A, ISO 180/1A
-20°C, Injection Molded	8.0	kJ/m ²	ISO 180/1A
0°C, Injection Molded	30	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	143	°C	ASTM D1525, ISO 306/A120 4 ²
--	62.0	°C	ASTM D1525, ISO 306/B120 5 ³
NOTE			
1.	5.0 mm/min		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	Rate B (120°C/h), Loading 2 (50 N)		

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