

SABIC® PP 512MN10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade has excellent flow properties and a good combination of high impact strength and stiffness. It is widely used in articles where good processability, high toughness and a low warpage are required, e.g. vacuum-cleaner housings, large size flower pots, foodstuff containers and ice-cream containers.

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

General Information			
UL YellowCard	E111275-219027		
Features	Block Copolymer		
	Good Flow		
	Good Processability		
	High Impact Resistance		
	High Stiffness		
	Low Warpage		
	Ultra High Toughness		
Uses	Containers		
	Food Containers		
	Housings		
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)	37	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Shore Hardness (Shore D)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1400	MPa	ASTM D638
--	1300	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	28.0	MPa	ASTM D638
Yield	25.0	MPa	ISO 527-2/1A/50
Tensile Elongation			

Yield ³	5.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m ²	
0°C	7.0	kJ/m ²	
23°C	11	kJ/m ²	
Notched Izod Impact			
-20°C	55	J/m	ASTM D256A
0°C	65	J/m	ASTM D256A
23°C	90	J/m	ASTM D256A
-20°C	5.0	kJ/m ²	ISO 180/1A
0°C	6.5	kJ/m ²	ISO 180/1A
23°C	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	90.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	85.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	60.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	150	°C	ASTM D1525, ISO 306/A120 6 ⁶
--	75.0	°C	ASTM D1525, ISO 306/B120 7 ⁷
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	testbar 80*10*4mm		
5.	testbar 80*10*4mm		
6.	Rate B (120°C/h), Loading 1 (10 N)		
7.	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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