

SABIC® PP 58MNK10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade combines an excellent stiffness with high impact resistance. It has a narrow molecular weight distribution and a low tendency to warp. Excellent flow in combination with high crystallisation speed enables outstanding processability aiming at easy mould filling and short cycle times. Due to the mentioned performance this grade is suitable for usage in several kinds of containers. The excellent high gloss level makes this material also favourable for household applications.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
UL YellowCard	E111275-219028	E111275-101381015	
Additive	Nucleating Agent		
Features	Block Copolymer		
	Fast Molding Cycle		
	Good Flow		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Gloss		
	Low Warpage		
	Narrow Molecular Weight Distribution		
	Nucleated		
Uses	Containers		
	Household Goods		
UL File Number	E111275		
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)	15	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	97		ASTM D785
Shore Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1600	MPa	ASTM D638
--	1550	MPa	ISO 527-2/1A/1
Tensile Strength			

Yield ²	26.0	MPa	ASTM D638
Yield	27.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	4.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	
0°C	8.0	kJ/m ²	
23°C	13	kJ/m ²	
Notched Izod Impact			
-20°C	65	J/m	ASTM D256A
0°C	75	J/m	ASTM D256A
23°C	100	J/m	ASTM D256A
-20°C	6.0	kJ/m ²	ISO 180/1A
0°C	7.0	kJ/m ²	ISO 180/1A
23°C	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	105	°C	ASTM D648
0.45 MPa, Unannealed ⁴	100	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	65.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	60.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	151	°C	ASTM D1525, ISO 306/A120 6 ⁶
--	80.0	°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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