

SABIC® PP 513MNK10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This very high flow grade shows a medium impact resistance, even at low temperatures, combined with high stiffness. It is used for high speed processing of thin walled packaging articles like margarine tubs, ice cream containers and flowerpots. SABIC® PP 513MNK10 is also suited for moulding of caps and closures, toys and housewares. This grade is also available with an anti-static 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	E111275-219028		
Additive	Nucleating Agent		
Features	Block Copolymer		
	Fast Molding Cycle		
	High Flow		
	High Stiffness		
	Low Temperature Impact Resistance		
	Medium Impact Resistance		
	Nucleated		
Uses	Caps		
	Closures		
	Food Containers		
	Household Goods		
	Thin-walled Packaging		
	Toys		
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)	70	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	93		ASTM D785
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1400	MPa	ASTM D638
--	1350	MPa	ISO 527-2/1A/1

Tensile Strength			
Yield ²	25.0	MPa	ASTM D638
Yield	25.0	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
0°C	7.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Notched Izod Impact			
0°C	50	J/m	ASTM D256A
23°C	60	J/m	ASTM D256A
0°C	5.0	kJ/m ²	ISO 180/1A
23°C	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	95.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	90.0	°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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