SABIC® PP 612MK46

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This grade is especially developed for pails and containers. Special characteristics of this grade are a high crystalisation temperature, very high flow in combination with medium impact performance and neutral taste & odor performance. This enables outstanding processability, very easy mould filling and short cycle times. SABIC® PP 612MK46 is formulated with a combined processing and antistatic additive package. It is also available in a general purpose additive package.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Additive	Antistatic Nucleating Agent		
Features	Antistatic Block Copolymer Fast Molding Cycle Good Processability High Flow Low to No Odor Low to No Taste Medium Impact Resistance Nucleated		
Uses	Containers Pails		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.905	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	33	g/10 min	ASTM D1238, ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	92		ASTM D785
Shore Hardness (Shore D)	62		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
1% Secant [1]	1500	MPa	ASTM D638
--	1400	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield [2]	24.0	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
-20°C	5.0	kJ/m^2	
0°C	7.0	kJ/m^2	
23°C	9.0	kJ/m^2	
Notched Izod Impact			
-20°C	50	J/m	ASTM D256A
0°C	65	J/m	ASTM D256A
23°C	80	J/m	ASTM D256A
-20°C	5.0	kJ/m^2	ISO 180/1A
0°C	7.0	kJ/m^2	ISO 180/1A
23°C	9.0	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			
--	149	°C	ASTM D1525, ISO 306/A120 5 [6]
--	76.0	°C	ASTM D1525, ISO 306/B120 6 [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)

Recommended distributors for this material

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