SABIC® PP 412MN40

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

A multi-purpose grade with very good flow properties, high stiffness and good impact strength. The material has a very low tendency for warpage and is suited for the production of thin wall packaging articles. Cycle times can be very short. It is formulated with a combined processing and antistatic additive package. This grade is widely applied in thin wall technical injection moulded articles and thin-walled containers, in particular where dimensional stability is important.
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		
Additive	Antistatic Processing Aid		
Features	Antistatic Block Copolymer Fast Molding Cycle Good Dimensional Stability Good Flow Good Impact Resistance High Stiffness Low Warpage		
Uses	Thin-walled Packaging		
UL File Number	E111275		
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)	37	g/10 min	ASTM D1238, 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]	25.0	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/m²	
0°C	7.0	kJ/m²	
23°C	11	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-20°C	5.0	kJ/m²	
0°C	6.5	kJ/m²	
23°C	8.0	kJ/m²	
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)

Recommended distributors for this material

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


WECHAT