

SABIC® PP RA12MN40

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This random copolymer is medium ethylene modified, clarified and anti-static. It is specially developed for injection moulding applications. Special characteristics are high stiffness, good transparency and high gloss. Typical applications are in housewares and thin walled packaging. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
UL YellowCard	E111275-100607606		
Additive	Antistatic		
	Clarifier		
Features	Antistatic		
	High Clarity		
	High Gloss		
	High Stiffness		
	Random Copolymer		
Uses	Household Goods		
	Thin-walled Packaging		
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)	40	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1100	MPa	ASTM D638
--	1000	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	27.0	MPa	ASTM D638
Yield	27.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	13	%	ASTM D638

Yield	13	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	2.0	kJ/m ²	
23°C	5.5	kJ/m ²	
Notched Izod Impact			
0°C	30	J/m	ASTM D256A
23°C	50	J/m	ASTM D256A
0°C	2.0	kJ/m ²	ISO 180/1A
23°C	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	80.0	°C	ASTM D648
0.45 MPa, Unannealed ⁴	75.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	55.0	°C	ASTM D648
1.8 MPa, Unannealed ⁵	50.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	126	°C	ASTM D1525, ISO 306/A120 6 ⁶
--	68.0	°C	ASTM D1525, ISO 306/B120 7 ⁷
NOTE			
1.	1.0 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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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