

SABIC® PP RA1E10h

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This random copolymer has a high molecular weight and therefore mainly used for extrusion. It is typically used in pipe & sheet extrusion. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information	
Features	High Molecular Weight
	Random Copolymer
Uses	Piping
	Sheet
Processing Method	Extrusion
	Pipe Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.895	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Shore Hardness (Shore D)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1000	MPa	ASTM D638
--	950	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	28.0	MPa	ASTM D638
Yield	29.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	13	%	ASTM D638
Yield	12	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	> 60	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	140	J/m	ASTM D256A
23°C	14	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	128	°C	ASTM D1525, ISO 306/A120 4 ⁴
--	67.0	°C	ASTM D1525, ISO 306/B120 5 ⁵
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	Rate B (120°C/h), Loading 1 (10 N)		
5.	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

