

SABIC® PP RA1E10H

PP RANDOM COPOLYMER

DESCRIPTION

This random copolymer has a high molecular weight and therefore mainly used for extrusion. It is typically used in sheet extrusion.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	0.30	dg/min	ISO 1133
Density	895	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus ⁽¹⁾	950	MPa	ISO 527-2 1A
strain at yield ⁽²⁾	12	%	ISO 527-2 1A
stress at yield	29	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	14	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	16	kJ/m ²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	>60	kJ/m ²	ISO 179
Hardness Shore D	63	-	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature ⁽³⁾			
at 10 N (VST/A)	128	°C	ISO 306
at 50 N (VST/B)	67	°C	ISO 306

(1) Speed of testing: 1 mm/min

(2) Speed of testing: 50 mm/min

(3) Temperature rate: 120°C/h

