



SABIC[®] PP RA12MN40

PP RANDOM COPOLYMER

DESCRIPTION

SABIC[®] PP RA12MN40 is a random copolymer medium ethylene modified, clarified and anti-static. It is typically used for injection moulding applications. Special characteristics are high stiffness, good transparency and high gloss. Typical applications are in housewares and thin walled packaging.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	40	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D1505
FORMULATION			
Anti static agent	☑	-	-
Clarified	☑	-	-
MECHANICAL PROPERTIES			
Tensile test			
stress at yield ⁽¹⁾	27	MPa	ISO 527-2 1A
strain at yield	13	%	ISO 527-2 1A
tensile modulus ⁽²⁾	1000	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	4.0	kJ/m ²	ISO 180/1A
at 0 °C	2.0	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 0 °C	2.0	kJ/m ²	ISO 179/1eA
at 23 °C	5.5	kJ/m ²	ISO 179/1eA
Hardness Shore D	62	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 1.80 MPa (HDT/A)	50	°C	ISO 75
at 0.45 MPa (HDT/B)	75	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 50 N (VST/B)	68	°C	ISO 306
at 10 N (VST/A)	126	°C	ISO 306