

SABIC® PPCOMPOUND 642NH

PP COMPOUND IMPACT MODIFIED

DESCRIPTION

SABIC® PP compound PP642NH is a high molecular weight, low melt flow rate polypropylene random copolymer (PP-R), green color & specially designed for transport of hot and cold drinking water. This grade is highly heat Stabilized and specially formulated for extraction resistance with improved throughput & gloss.

SABIC® PP compound PP 642NH is a designated pipe grade

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	0.3	dg/min	ISO 1133
Density ⁽¹⁾	900	kg/m³	ISO 1183
Filler content	0.5	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	2	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1000	MPa	ISO 527/1A
stress at yield	28	MPa	ISO 527/1A
stress at break	18	MPa	ISO 527/1A
strain at break	70	%	ISO 527/1A
Flexural test			
Flexural modulus	1040	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	26	kJ/m²	ISO 180/1A
at -20 °C	2.5	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	84	°C	ISO 75

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

