

# 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

Revision 20211206

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	0.3	dg/min	ISO 1133
<b>Density</b> <sup>(1)</sup>	900	kg/m <sup>3</sup>	ISO 1183
<b>Filler content</b>	0.5	%	SABIC method
<b>Mould shrinkage</b> <sup>(2)</sup>			
24 hours after injection moulding	2	%	SABIC method
<b>MECHANICAL PROPERTIES</b> <sup>(1)</sup>			
<b>Tensile test</b>			
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
<b>Flexural test</b>			
Flexural modulus	1040	MPa	ISO 178/1A
<b>Izod impact notched</b> <sup>(3)</sup>			
at 23 °C	26	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	2.5	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b> <sup>(1)</sup>			
<b>Heat deflection temperature</b>			
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

### STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.



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