

# SABIC<sup>®</sup> PP RELY 71EK71PS

## PP IMPACT COPOLYMER

### DESCRIPTION

This impact copolymer has a high molecular weight and is provided with a long-term heat stabilisation package. It exhibits high stiffness in combination with very high impact strength even at low temperatures. This material is typically used for extrusion of sewage pipe applications and can also be typically used for blow-moulding of large containers and sheet extrusion.

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC.com>

This grade material is UL registered under File E111275 ([www.ul.com](http://www.ul.com))  
IMDS 80775790

### TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg	0.30	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
<b>Anti static agent</b>	<input type="checkbox"/>	-	-
<b>Nucleating agent</b>	<input checked="" type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield	28	MPa	ISO 527-2 1A
tensile modulus <sup>(1)</sup>	1450	MPa	ISO 527-2 1A
strain at yield <sup>(2)</sup>	8	%	ISO 527-2 1A
<b>Izod impact notched</b>			
at 0 °C	35	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	6	kJ/m <sup>2</sup>	ISO 180/1A
<b>Izod impact notched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 23 °C	80	kJ/m <sup>2</sup>	ISO 179/1eA
at 0 °C	20	kJ/m <sup>2</sup>	ISO 179/1eA
at -20 °C	7	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Charpy impact unnotched</b>			
at 23 °C	No Break	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Hardness Shore D</b>	66	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(3)</sup></b>			
at 0.45 MPa (HDT/B)	95	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 10 N (VST/A)	156	°C	ISO 306

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
at 50 N (VST/B)	81	°C	ISO 306
OIT 200°C	>100	min	EN 728

- (1) Speed of testing: 1 mm/min
- (2) Speed of testing: 50 mm/min
- (3) Flat wise ( testbar 80\*10\*4mm)
- (4) Temperature rate: 120°C/h

## QUALITY

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

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