



# SABIC<sup>®</sup> PP RELY 61EK61PS

## PP IMPACT COPOLYMER

### DESCRIPTION

This impact copolymer has a high molecular weight and is provided with a long-term heat stabilisation package. It exhibits extra high stiffness in combination with very high impact strength even at low temperatures. This material is typically used for extrusion of non-pressure 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>

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>	□	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
strain at yield <sup>(1)</sup>	8	%	ISO 527-2 1A
tensile modulus <sup>(2)</sup>	1850	MPa	ISO 527-2 1A
stress at yield	40	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 0 °C	20	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	5	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 -20 °C	6	kJ/m <sup>2</sup>	ISO 179/1eA
at 0 °C	10	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Charpy Impact Strength Notched</b>			
at 23 °C	No Break	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>	70	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature <sup>(3)</sup></b>			
at 50 N (VST/B)	80	°C	ISO 306
at 10 N (VST/A)	155	°C	ISO 306
<b>OIT 200°C</b>	>100	min	EN 728



- (1) Speed of testing: 50 mm/min
- (2) Speed of testing: 1 mm/min
- (3) Temperature rate: 120°C/h

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