

## SABIC PP RELY 61EK61PS PP (Global)



Categories: [Polymer](#); [Thermoplastic](#); [Polypropylene \(PP\)](#)

**Material Notes:** 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. IMDS 80775790

Information provided by Sabic

**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in <sup>3</sup>	ASTM D1505
Oxidative Induction Time (OIT)	>= 100 min @Temperature 200 °C	>= 100 min @Temperature 392 °F	EN 728
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 230 °C	0.30 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ISO 868
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527-2 1A
Elongation at Yield	8.0 %	8.0 %	ISO 527-2 1A
Tensile Modulus	1.85 GPa	268 ksi	ISO 527-2 1A
Izod Impact, Notched (ISO)	NB	NB	ISO 180/1A
	5.00 kJ/m <sup>2</sup> @Temperature -20.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 180/1A
	20.0 kJ/m <sup>2</sup> @Temperature 0.000 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 32.0 °F	ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	NB	NB	ISO 179/1eA
	0.600 J/cm <sup>2</sup> @Temperature -20.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179/1eA
	1.00 J/cm <sup>2</sup> @Temperature 0.000 °C	4.76 ft-lb/in <sup>2</sup> @Temperature 32.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Vicat Softening Point	80.0 °C	176 °F	at 50 N (VST/B); ISO 306
	155 °C	311 °F	at 10 N (VST/A); ISO 306

### Descriptive Properties

Anti static agent	False
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