SABIC® 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 outstanding impact strength even at low temperatures. This material is used for extrusion of non-pressure sewage pipe applications and can also be used for sheet extrusion.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	0.30	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
FORMULATION			
Anti static agent	☐	-	-
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus (1)	1850	MPa	ISO 527-2 1A
strain at yield (2)	8	%	ISO 527-2 1A
stress at yield	40	MPa	ISO 527-2 1A
Izod impact notched			
at 0 °C	20	kJ/m²	ISO 180/1A
at -20 °C	5	kJ/m²	ISO 180/1A
Izod impact notched			
at 23 °C	No Break	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 0 °C	10	kJ/m²	ISO 179/1eA
at -20 °C	6	kJ/m²	ISO 179/1eA
Charpy Impact Strength Notched			
at 23 °C	No Break	kJ/m²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	No Break	kJ/m²	ISO 179/1eU
Hardness Shore D	70	-	ISO 868

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL PROPERTIES			
Vicat Softening Temperature (3)			
at 50 N (VST/B)	80	°C	ISO 306
at 10 N (VST/A)	155	°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) Temperature rate: 120°C/h