

SABIC® PP RELY 61EK61PS

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

This block 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.

General Information			
Additive	Heat Stabilizer		
Features	Block Copolymer		
	Good Impact Resistance		
	Heat Stabilized		
	High Molecular Weight		
	High Stiffness		
	Low Temperature Resistant		
Uses	Piping		
	Sheet		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1850	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	40.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	
0°C	10	kJ/m ²	
23°C	No Break		
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU

Notched Izod Impact Strength			ISO 180/1A
-20°C	5.0	kJ/m ²	
0°C	20	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	155	°C	ISO 306/A120
--	80.0	°C	ISO 306/B120
Oxidation Induction Time (200°C)	> 100	min	EN 728

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