

SNOLEN® EP 0.49/47

High Density Polyethylene
JSC Gazprom neftekhim Salavat

Message:

CHARACTERISTIC PROPERTIES

Extra-high environmental stress crack resistance. High impact strength. UV protection not required.

MAJOR APPLICATIONS

PE 80 Pipe Grades: process pipes, incl. pressure pipes; gas pipes; potable water pipes; unpressurized pipes; wear plates; fittings.

General Information			
Features	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Fittings		
	Piping		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.943 to 0.947	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	8.0 to 16	g/10 min	
190°C/5.0 kg	0.41 to 0.49	g/10 min	
Environmental Stress-Cracking Resistance ¹ (80°C, 2% Arkopal)	50.0	hr	ISO 16770
Melt Flow Ratio	23.0 to 31.0		
Resistance to Rapid Crack Propagation, Pc - Test S4	> 3.00	bar	ISO 13477
Resistance to Slow Crack Growth - Notch Test (SCG) ²	> 250	hr	ISO 13479
Resistance to Internal Pressure - Hydrostatic Strength ³ (80°C)	> 1.4	month	ISO 1167
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	850	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	22.0	MPa	
Break	35.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	8.0	%	

Break	> 850	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	23	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	67.0	°C	ISO 306/B50
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	@ 4.0 MPa		
2.	@ 4.0 MPa		
3.	@ 4.6 MPa		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

