

SNOLEN® EP 0.26/51 N

High Density Polyethylene
JSC Gazprom neftekhim Salavat

Message:

CHARACTERISTIC PROPERTIES
High density polyethylene (HDPE).
Extra-high environmental stress crack resistance. High impact strength.
High hydrostatic strength for PE 100 pipe grades. UV protection not required.
MAJOR APPLICATIONS
PE 100 extrusion pipe grades. Process pipes (incl. pressure pipes). Gas pipes. Potable water pipes. Wear plates. Fittings.

General Information			
Features	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Fittings		
	Piping		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.947 to 0.951	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	5.2 to 7.2	g/10 min	
190°C/5.0 kg	0.20 to 0.26	g/10 min	
Environmental Stress-Cracking Resistance ¹ (80°C, 2% Arkopal)	400	hr	ISO 16770
Melt Flow Ratio	25.0 to 31.0		
Resistance to Rapid Crack Propagation, Pc - Test S4	> 20.0	bar	ISO 13477
Resistance to Slow Crack Growth - Notch Test (SCG) ²	> 1000	hr	ISO 13479
Resistance to Internal Pressure - Hydrostatic Strength ³ (80°C)	> 2	yr	ISO 1167
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		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	23.0	MPa	

Break	36.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	10	%	
Break	> 1000	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	25	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	74.0	°C	ISO 306/B50
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	
NOTE			
1.	@ 4.0 MPa		
2.	@ 4.6 MPa		
3.	@ 4.6 MPa		

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