

SNOLEN® EF 0.33/51

High Density Polyethylene
JSC Gazprom neftekhim Salavat

Message:

CHARACTERISTIC PROPERTIES
Good impact resistance by free-falling dart method (puncture resistance by falling weight test). Good tensile strength at break. Few gel inclusions.

MAJOR APPLICATIONS
Packing films and sheets.

General Information			
Features	Good Impact Resistance		
	High Density		
	High Tensile Strength		
	Low Gel		
Uses	Film		
	Packaging		
	Sheet		
Forms	Pellets		
Processing Method	Film 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/2.16 kg	6.0 to 10	g/10 min	
190°C/5.0 kg	0.23 to 0.33	g/10 min	
Melt Flow Ratio	25.0 to 33.0		
Elmendorf Tear Strength			
MD	509.9	g/2.5 cm	
TD	1147.2	g/2.5 cm	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield	24.0	MPa	
Break	35.0	MPa	
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	10 to 200µm		
Tensile Stress			ISO 527-3/50
MD : Break	45.0	MPa	
TD : Break	40.0	MPa	

Tensile Elongation			ISO 527-3/50
MD : Break	400	%	
TD : Break	450	%	
Dart Drop Impact	220	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	75.0	°C	ISO 306/B50
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 230	°C	

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