

SNOLEN® EM 3.3/58

High Density Polyethylene
JSC Gazprom neftekhim Salavat

Message:

CHARACTERISTIC PROPERTIES
High hardness. High impact strength.
MAJOR APPLICATIONS
Monofibers (ropes, threads, fishing nets, geotextiles).

General Information			
Features	High Density		
	High Hardness		
	High Impact Resistance		
Uses	Monofilaments		
	Netting		
	Rope		
Forms	Pellets		
Processing Method	Fiber (Spinning) Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.954 to 0.958	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	23 to 33	g/10 min	
190°C/5.0 kg	2.3 to 3.3	g/10 min	
Environmental Stress-Cracking Resistance ¹ (80°C, 2% Arkopal)	2.00	hr	ISO 16770
Melt Flow Ratio	8.00 to 12.0		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	27.0	MPa	
Break	31.0	MPa	
Tensile Strain			
Yield	10	%	ISO 527-2
Break	> 1000	%	ISO 527-2/50
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	80.0	°C	ISO 306/B50
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 270	°C	
NOTE			
1.	@ 2.5 MPa		

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