

SNOLEN® EB 1.4/46

High Density Polyethylene
JSC Gazprom neftekhim Salavat

Message:

CHARACTERISTIC PROPERTIES
Good impact strength. Good environmental stress cracking resistance.
MAJOR APPLICATIONS
Small blow-molded bottles, food containers (up to 5 l). Medicines packing. Surfactants packing.

General Information			
Features	Good Impact Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	Bottles		
	Food Containers		
	Packaging		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.942 to 0.946	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	19 to 27	g/10 min	
190°C/5.0 kg	0.80 to 1.4	g/10 min	
Environmental Stress-Cracking Resistance ¹ (80°C, 2% Arkopal)	10.0	hr	ISO 16770
Melt Flow Ratio	18.0 to 24.0		
Swelling	95 to 130	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	900	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	22.0	MPa	
Break	32.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	10	%	
Break	> 600	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	11	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	70.0	°C	ISO 306/B50
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	
NOTE			
1.	@ 3.5 MPa		

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Recommended distributors for this material

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

