

SNOLEN® IM 13/56 E

High Density Polyethylene
JSC Gazprom neftekhim Salavat

Message:

CHARACTERISTIC PROPERTIES
High hardness. Good flow characteristics. Low deformation.
MAJOR APPLICATIONS
Components for machine building. Sports and leisure kits.
E - THE Catalyst

General Information			
Features	Good Flow		
	High Density		
	High Hardness		
Uses	Machine/Mechanical Parts		
	Sporting Goods		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.952 to 0.956	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	3.5 to 5.0	g/10 min	
190°C/5.0 kg	9.0 to 13	g/10 min	
Environmental Stress-Cracking Resistance ¹ (80°C, 2% Arkopal)	3.00	hr	ISO 16770
Melt Flow Ratio	2.30 to 3.30		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1100	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	26.0	MPa	
Break	30.0	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)	3.0	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
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 280	°C	
NOTE			
1.	@ 2.5 MPa		

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