

SNOLEN® IM 55/59

High Density Polyethylene
JSC Gazprom neftekhim Salavat

Message:

CHARACTERISTIC PROPERTIES
Very good flow characteristics. High hardness. Low deformation.
MAJOR APPLICATIONS
Medical equipment. Toys. Goods approved for contact with food.

General Information			
Features	Food Contact Acceptable		
	Good Flow		
	High Density		
	High Hardness		
Uses	Medical/Healthcare Applications		
	Non-specific Food Applications		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.955 to 0.959	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	14 to 20	g/10 min	
190°C/5.0 kg	49 to 55	g/10 min	
Environmental Stress-Cracking Resistance ¹ (80°C, 2% Arkopal)	1.00	hr	ISO 16770
Melt Flow Ratio	2.40 to 3.60		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1350	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	28.0	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)	2.0	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	71.0	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 280	°C	
NOTE			
1.	@ 2.5 MPa		

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