

SNOLEN® IM 13/56 S

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.

S - THS (Z501) Catalyst

General Information			
Features	High density		
	Good liquidity		
	High hardness		
Uses	Machine/mechanical parts		
	Sporting goods		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.952 - 0.956	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	3.5 - 5.0	g/10 min	ISO 1133
190°C/5.0 kg	9.0 - 13	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (80°C, 2% Arkopal)	3.00	hr	ISO 16770
Volatile Matter		wt%	
Melt Flow Ratio	2.20 - 3.40		
Hardness	Nominal Value	Unit	Test Method
Durometer 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	ISO 527-2/50
Fracture	30.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	10	%	ISO 527-2
Fracture	> 1000	%	ISO 527-2/50
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	10 to 200µm		
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength (23°C)	> 3.5	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
Additional Information			
Inclusions: <15 pcs			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 280	°C	
NOTE			
1.	@ 2.5 MPa		

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