Safrene® M 5010PE100 BLK

High Density Polyethylene Safripol (PTY) LTD

Message:

Safrene™ M 5010PE100 BLK is a black High Density Polyethylene Resin suitable for all dimensions of PE100 piping where transportation of potable water, irrigation, effluent, slurry and certain chemical substances is required. It is a high molecular mass grade with good impact strength, abrasion, chemical and UV resistance, and complies with the PE100 (MRS 10) requirements of ISO 4427:1996.

Safrene™ M 5010PE100 BLK High Density Polyethylene Resin is supplied only in the form of black UV resistant granules.

General Information					
Features	High molecular weight				
	Impact resistance, good				
	Good UV resistance				
	Good wear resistance				
	Good chemical resistance				
	Compliance of Food Exposure				
Uses	Piping system				
Agency Ratings	European 2002/72/EC				
Appearance	Black				
Forms	Particles				
Processing Method	Pipeline extrusion molding				
Physical	Nominal Value	Unit	Test Method		
Density	0.958	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR)			ISO 1133		
190°C/2.16 kg	9.0	g/10 min	ISO 1133		
190°C/5.0 kg	0.25	g/10 min	ISO 1133		
Viscosity Number (Reduced Viscosity)	390.0	ml/g	ISO 1628		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D, Compression Molded)	61		ISO 868		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Stress			ISO 527-2/50		
Yield, molding	24.0	MPa	ISO 527-2/50		
Fracture, molding	35.0	МРа	ISO 527-2/50		
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2/50		
Flexural Stress (3.5% Strain,Compression					
Molded)	19.0	MPa	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength			ISO 179		
-30°C, molded	6.0	kJ/m²	ISO 179		

23°C, molded	20	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	67.0	°C	ISO 306/B
Melting Temperature (DSC)	130 - 133	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 200	°C	
Cylinder Zone 2 Temp.	190 - 220	°C	
Cylinder Zone 3 Temp.	190 - 220	°C	
Melt Temperature	190 - 220	°C	
Extrusion instructions			

Feed Zone: 160 to 170°C

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