Safrene® M 5010PE 100

High Density Polyethylene

Safripol (PTY) LTD

Message:

HDPE M 5010PE 100 Polyethylene Resin is a high molecular mass grade with good impact strength, abrasion, chemical and UV resistance, complying with the PE100 (MRS 10) requirements of ISO 4427. HDPE M 5010PE 100 Polyethylene Resin is suitable for all dimensions of PE 100 piping where transportation of potable water, irrigation, effluent, slurry and certain chemical substances is required. HDPE M 5010PE 100 Polyethylene Resin is supplied only in special UV resistant black granular form.

General Information			
Features	Food Contact Acceptable Good Abrasion Resistance Good Chemical Resistance Good Impact Resistance Good UV Resistance High Molecular Weight		
Uses	Irrigation Applications Piping		
Agency Ratings	EU 2002/72/EC PPI PE-100		
Appearance	Black		
Processing Method	Pipe Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1]	0.958	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	9.0	g/10 min	
190°C/5.0 kg	0.25	g/10 min	
Viscosity Number (Reduced Viscosity)	390.0	ml/g	ISO 1628
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	61		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2/50
Yield, Compression Molded	24.0	MPa	
Break, Compression Molded	35.0	MPa	
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, Compression Molded	6.0	kJ/m²	
23°C, Compression Molded	20	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	67.0	°C	ISO 306/B
Peak Crystallization Temperature (DSC)	130 to 133	°C	ISO 3146
NOTE			
1.	Unannealed		

Recommended distributors for this material

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