

Safrene® M 5010SH

High Density Polyethylene

Safripol (PTY) LTD

Message:

HDPE M 5010SH Polyethylene Resin is a high molecular mass grade especially developed for pressure pipe applications. HDPE M 5010SH Polyethylene Resin has good impact strength, abrasion and chemical resistance properties. HDPE M 5010SH Polyethylene Resin is suitable for small and large diameter pressure pipe applications. HDPE M 5010SH Polyethylene Resin is also recommended for sheet extrusion.

General Information			
Features	Food Contact Acceptable		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Impact Resistance		
	High Molecular Weight		
Uses	Irrigation Applications		
	Piping		
	Sheet		
Agency Ratings	EU 2002/72/EC		
	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Extrusion		
	Pipe Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.948	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	9.0	g/10 min	
190°C/5.0 kg	0.30	g/10 min	
Viscosity Number (Reduced Viscosity)	340.0	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	4.0	kJ/m ²	
23°C, Compression Molded	12	kJ/m ²	
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		

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