

Safrene® M 5010

High Density Polyethylene

Safripol (PTY) LTD

Message:

HDPE M 5010 Polyethylene Resin is a high molecular mass grade especially developed for pressure pipe applications. HDPE M 5010 Polyethylene Resin has good impact strength, abrasion, chemical and UV resistance properties. HDPE M 5010 Polyethylene Resin is suitable for small and large diameter pressure pipe applications where compliance with ISO 4427 is required. HDPE M 5010 Polyethylene Resin is also recommended for sheet extrusion.

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 Sheet
Agency Ratings	EU 2002/72/EC
Processing Method	Extrusion Pipe Extrusion Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density ¹	0.958	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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