

HD8181MB

High Density Polyethylene Black Compound Resin

Special Characteristics

PlastMate HD8181MB is a high density polyethylene black pipe compound grade. Good mechanical properties and chemical resistance properties. This grade with no long term classification can be used in non pressure applications.

Typical Application : non pressure pipes and Sewer pipes.

Typical Properties :

Properties	Typical Value	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190 °C, 5 kg)	0.30	g/10 min	ISO 1133
Density	0.960	g/cm ³	ISO 1183
Melting point	132	°C)	ASTM3418
<i><u>Mechanical Properties (Based on compression specimens)</u></i>			
Tensile Strength @ Yield	22	MPa	ISO 527
Tensile strength @ Break	30	MPa	ISO 527
Elongation @ Break	>500	%	ISO 527
Stiffness	8000	kg/cm ²	ASTM D747
Flexural Modulus	11500	kg/cm ²	ASTM D790
Carbon Black Content	2.25	% wt	ISO 6964
Carbon Black dispersion	< 7	-	ISO 18553
Durometer Hardness	64	Shore D	ASTM D2240
ESCR , F ₅₀ (Condition B, 25 % Igepal)	>2000	Hours	ASTM D1693
Oxidative Induction Time (OIT, 210 °C)	>40	Minutes	ISO 11357-6

* NB = Non Break

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Recommendation :

Preheat condition : 2 hours at 80 °C
Extruder temperature : 180 - 200 °C
Die temperature : 190 - 210 °C

Disclaimer :

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Note : Properties reported here are typical values of the product, not to be considered as specifications.

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