HD8100MB

High Density Polyethylene Black Compound Resin

Special Characteristics

PlastMate HD8100MB is a high density polyethylene black pipe compound grade. which is certified as a MRS 10.0 (PE100). It is bimodal resins exhibit excellent processability , high thermal stability , good dispersion of carbon black and chemical resistance properties. They are suitable for high quality pressure pipes, produced by conventional pipe extrusion process.

Typical Application : Pressure pipes , Drinking water pipes, Industrial pipes and Sewer pipes.

Typical Properties :

Properties	Typical Value	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 5 kg)	0.25	g/10 min	ISO 1133
Density	0.960	g/cm^3	ISO 1183
Mechanical Properties (Based on compression specimens)			
Tensile Strength @ Yield	23	MPa	ISO 527
Tensile strength @ Break	> 30	MPa	ISO 527
Elongation @ Break	> 600	%	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	< 3	-	ISO 18553
Notched Izod Impact Strength	50 (NB)*	kg.cm/cm	ASTM D256
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
MRS Classification	10.0	MPa	ISO 9080
Resistance to crack growth (@ 80 °C)	> 500	hour	ISO 13479

* 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

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