

HIVOREX 4100M

High Density Polyethylene

Lotte Chemical Corporation

Technical Data

Product Description

HIVOREX 4100M is produced by slurry process technology.
This resin is ideally suited for use in pipe coating application.
HIVOREX 4100M is designed to offer good processability, good ESCR.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• Lotte Chemical Corporation		
Availability	• Asia Pacific • Asia Pacific	• Europe • Europe	• North America • North America
Features	• Good Processability	• High ESCR (Stress Crack Resist.)	
Uses	• Pipe Coatings		
RoHS Compliance	• RoHS Compliant		

Physical	Nominal Value Unit	Test Method
Density	0.945 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.27 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance F50	> 2000 hr	ASTM D1693

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	18.6 MPa	ASTM D638
Tensile Elongation (Break)	> 800 %	ASTM D638
Flexural Modulus	785 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	No Break	ASTM D256

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	120 °C	ASTM D1525
Melting Temperature	128 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.