

HIVOREX 8000M

High Density Polyethylene
 Honam Petrochemical Corporation

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• High ESCR (Stress Crack Resist.)
Uses	• Piping
Agency Ratings	• PPI PE-100
Forms	• Pellets

Physical

	Nominal Value Unit	Test Method
Density	0.951 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.040 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance 50°C	> 2000 hr	ASTM D1693

Mechanical

	Nominal Value Unit	Test Method
Tensile Strength		
Yield	23.5 MPa	ASTM D638
Break	32.4 MPa	
Tensile Elongation (Break)	> 700 %	ASTM D638
Flexural Modulus	883 MPa	ASTM D790

Impact

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

Hardness

	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	57	ASTM D785

Thermal

	Nominal Value Unit	Test Method
Vicat Softening Temperature	126 °C	ASTM D1525

Notes

¹ Typical properties: these are not to be construed as specifications.