



HDPE 7700M High Density Polyethylene Technical Datasheet

Product Description:

HD7700M is a High density polyethylene natural color, bimodal technology, **classified as a PE100** material providing superior in mechanical properties and process ability. HD 7700M also shows excellent resistance to rapid crack propagation and slow crack growth (SCG).

Features

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 190°C and 5 kg load	0.28	g/10 min	ISO 1133
at 190°C and 21.6 kg load	9.5	g/10 min	ISO 1133
Density at 23°C ⁽¹⁾	950	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Stress at Yield	24	MPa	ISO 527-1/-2
Tensile Stress at Break	>29	MPa	ISO 527-1/-2
Elongation at Break	>500	%	ISO 527-1/-2
Izod Notched (23°C) Impact strength	35	Kg.cm/cm	ASTM D 256
Charpy Impact strength	NB	kJ/m ²	ISO 179-1
Shore hardness	63	D scale	ISO 868
Stress cracking resistance (80°C)	>1000	h	ASTM 1693
Vicat softening temperature	122	°C	ISO 306
QIT@210°C	>20	Min	ASTM D 3418

Processing Conditions

Typical processing conditions for HDPE 7700M:

Melt Temperature: 190-220

Storage and Handling

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. ILPC would not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.

Packaging

25 kg bag ,1375 Kg shrink film palletized.


Applications:

- Pressure water pipes
- Drainage, Sewerage, Industrial pipes
- Corrugated pipes



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