

HD7700M – PE100

HIGH DENSITY POLYETHYLENE

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).

TYPICAL APPLICATIONS

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

TYPICAL PROPERTY VALUES

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	hr	ASTM 1693
Vicat softening temperature	122	°C	ISO 306
OIT@210°C	>20	Min	ASTM D 3418

(1) Typical values: not to be construed as specification limits.

(2) Based on compression molded sheet. Compression molding of test specimen according to ISO 1872-2 Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours

PROCESSING CONDITIONS

Typical processing conditions for HDPE 7700M:

Met 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.