

Technical Data Sheet

HDPE 7700M(PE 100)
High Density Polyethylene

HDPE 7700M is a natural, bimodal technology, high density polyethylene classified as a MRS 10.0 material (PE100) providing superior in mechanical properties and processability. HDPE 7700M also shows excellent resistance to rapid crack propagation and slow crack growth.

Applications:

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

Properties	Units	Value	Test Method
Melt Flow Rate @ 190°C & 5 kg load		0.28	ISO 1133
@ 190°C & 21.6 kg load	g/10 min	9.5	
Density (23 °C)	kg/m3	950	ISO 1183
MECHANICAL PROPERTIES			
Tensile Strength at Break	Mpa	>29	ISO 527-1, 2
Tensile Strength at Yield	Mpa	24	ISO 527-1, 2
Stress cracking resistance (80 °C)	hr	>1000	ASTM D1693
Izod Notched(23°C)	Kg.cm/cm	35	ASTM D 256
Charpy impact Strength	KJ/M ²	NB	ISO 179-1
Elongation at break	%	>500	ISO 527-1, 2
Shore hardness	D Scale	63	ISO 868
THERMAL PROPERTIES			
Vicat softening Temperature	°C	122	ISO 306
OIT@ 210 C	Min	>20	ASTM D 3418