

TOTAL Polyethylene HDPE XT10 N

High Density (HMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene XT10 N is a High Density (HMW) Polyethylene material. It is available in Asia Pacific or North America for pipe extrusion.

Important attributes of TOTAL Polyethylene XT10 N are:

REACH Compliant

Creep Resistant

Typical applications include:

Plumbing/Piping/Potable Water

Food Contact Applications

Coating Applications

General Information			
Features	Good Creep Resistance		
Uses	Coating Applications		
	Piping		
Agency Ratings	CSA B137.1		
	CSA B137.4		
	CSA C448		
	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
	NSF 14		
	NSF 61		
	PPI PE-100		
	PPI PE-3408		
	PPI PE-4710		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.949	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	7.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	> 24.1	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	> 800	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	1030	MPa	ASTM D790
Hydrostatic Design Basis			ASTM D2837

23°C	11.0	MPa	
60°C	6.89	MPa	
Notch Pipe Test	> 20.8	day	ISO 13479
Resistance to Rapid Crack Propagation, Pc (0°C)	> 12.0	bar	ISO 13477
Heat Deflection Temperature	78	°C	ASTM D648
	445576		
Cell Classification	445574		ASTM D3350
Minimum Required Strength	10.0	MPa	ISO 9080
PENT - Compression Molded	> 5000		ASTM F1473
Pipe Test Category	C3		ASTM D2239
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Compression Molded)	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-118	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Peak Melting Temperature	131	°C	ASTM D3417
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

