

TOTAL Polyethylene HDPE HP 401 N

High Density (HMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene HP 401 N is a high density (HMW) polyethylene material. This product is available in North America or Asia Pacific region. The processing method is: pipeline extrusion molding.

The main features of TOTAL Polyethylene HP 401 N are:

Comply with REACH standard

Good processability

Typical application areas include:

Water pipes/pipes/drinking water

food contact applications

bag/lining

industrial applications

General Information			
Features	Workability, good		
	Good melt strength		
Uses	Lining		
	Industrial application		
	Piping system		
Agency Ratings	CSA B137.1		
	CSA C448		
	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
	NSF 14		
Appearance	NSF 61		
	Natural color		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.945	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.080	g/10 min	ASTM D1238
190°C/21.6 kg	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F0)	> 1000	hr	ASTM D1693C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	22.8	MPa	ASTM D638
Tensile Elongation ² (Break)	800	%	ASTM D638
Flexural Modulus - 2% Secant	862	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	126	°C	ASTM D3418
Additional Information			
Cell Classification, ASTM D3350: 345464Elongation at Break, ASTM D638, Type IV, 2 in/min: >800%Hydrostatic Design Basis, ASTM D2837, 140°F: 800 psiHydrostatic Design Basis, ASTM D2837, 73°F: 1600 psiPENT, ASTM F1473: >100 hrsPPI Recommended Designation: PE 3608, PE 3408Tensile Strength at Yield, ASTM D638, Type IV, 2 in/min: >3300 psi			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	191 - 221	°C	
Cylinder Zone 2 Temp.	191 - 221	°C	
Cylinder Zone 3 Temp.	191 - 221	°C	
Cylinder Zone 4 Temp.	191 - 221	°C	
Cylinder Zone 5 Temp.	191 - 221	°C	
Melt Temperature	210	°C	
Extrusion instructions			
Vacuum Tank Water Temperature: 73°F			
NOTE			
1.	Type 4, 51mm/min		
2.	Type 4, 51mm/min		

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