

## Ineos TUB 172 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

TUB 172 is a yellow medium density polyethylene copolymer designed specifically for the extrusion of natural gas pipe. It exhibits excellent long term stress life and slow crack growth resistance. TUB 172 is the North American equivalent to ELTEX<sup>®</sup> TUB 172 Yellow produced in Europe. This material is certified to CSA Standard B137.4-05 and is recognized by the Plastics Pipe Institute as having a PE 2708 (formerly PE 2406) and PE 80 rating.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-TUB-172-HDPE.php](http://www.lookpolymers.com/polymer_ineos-TUB-172-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.938 g/cc	0.0339 lb/in <sup>3</sup>	Natural; ASTM D4883
	0.940 g/cc	0.0340 lb/in <sup>3</sup>	Yellow; ASTM D4883
Oxidative Induction Time (OIT)	>= 20 min	>= 20 min	ASTM D3895
Melt Flow	0.20 g/10 min	0.20 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 Â°C	@Load 4.76 lb, Temperature 374 Â°F	
	0.85 g/10 min	0.85 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 190 Â°C	@Load 11.0 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
PENT	>= 500 hour	>= 500 hour	Notched Tensile; ASTM F1473
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength at Break	31.0 MPa	4500 psi	2 in/min; ASTM D638
Tensile Strength, Yield	19.3 MPa	2800 psi	2 in/min; ASTM D638
Elongation at Break	>= 800 %	>= 800 %	2 in/min; ASTM D638
Flexural Modulus	0.689 GPa	100 ksi	2% Secant-Method 1; ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	120 Â°C	248 Â°F	ASTM D1525
Brittleness Temperature	<= -118 Â°C	<= -180 Â°F	ASTM D746
Decomposition Temperature	>= 220 Â°C	>= 428 Â°F	Thermal Stability; ASTM D2513/D3350

Descriptive Properties	Value	Comments
Cell Classification	234370E	
Process	Pipe Extrusion	

## Contact Songhan Plastic Technology Co.,Ltd.

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