

# TUB 172 Yellow Polyethylene Copolymer

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.

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
Density (Natural)	—	0.938 g/cc	D 4883
Density (Yellow)	—	0.940 g/cc	
Melt Index			
@ 190° C/2160 g	—	0.20 g/10 min	D 1238
@ 190° C/5000 g	—	0.85 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	2800 psi	19.3 Mpa	D 638
@ Break (2 in/min)	4500 psi	31.0 Mpa	D 638
Elongation @ Break (2 in/min)	>800%	>800%	D 638
Flexural Modulus <sup>2</sup>	100,000 psi	690 MPa	D 790
Hardness (Shore D)	64	64	D 2240
Vicat Softening Point	248 °F	120 °C	D 1525
Brittleness Temperature	<-180 °F	<-118 °C	D 746
Thermal Stability	428° F minimum	220° C minimum	D 2513/D 3350
OIT @ 210° C	> 20 min	> 20 min	D 3895
Notched Tensile (PENT)	>500 hrs	>500 hrs	F 1473
Cell Classification	234373E	234375E	D 3350

<sup>1</sup> Typical properties will vary within specification limits.

<sup>2</sup> 2% Secant-Method 1

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## Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, call + 1-800-527-5419.

## Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at [www.ineos-op.com](http://www.ineos-op.com). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

For additional information, samples, pricing and availability, please contact:

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