



Lotrène®
POLYETHYLENE

Q TR-400

Medium Density Polyethylene Resin (MDPE)

DESCRIPTION AND USE

This high molecular weight, hexene copolymer is tailored for geomembrane and pressure pipe application that require:

- Outstanding ESCR
- Excellent melt strength
- Good processability
- Broad fusion range

Typical applications for Q TR-400 include:

- Smooth and textured geomembrane
- Pressure Pipe

This resin meets these specifications:

- FDA Regulation 21CFR 177.1520
- ASTM D4976 - PE 225

NOMINAL PHYSICAL PROPERTIES	ASTM	UNIT	VALUE
Density	D1505	g/cm ³	0.938
Melt Index, condition 190 °C/2.16 kg	D1238	g/10min	0.11
HLMI, condition 190 °C/21.6 kg	D1238	g/10min	11
Flexural modulus, tangent 16:1-span:depth, 12.7 mm/min	D790	MPa	760
ESCR, condition B (100% Igepal), F ₅₀	D1693	h	>1500
Tensile strength at yield, 50 mm/min, type IV bar	D638	MPa	20
Elongation at break, 50 mm/min, Type IV bar	D638	%	>600
Brittleness temperature, type A clamp, type I specimen	D746	°C	<-75

The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

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