

HD44-30

High Density Polyethylene

HD44-30 is a broad molecular weight distribution, high molecular weight ethylene-hexene copolymer is tailored for conduit pipe applications that require outstanding processability, Superior melt strength, Excellent slow crack growth resistance and good balance between pipe stiffness and toughness. **HD44-30** complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) + 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles. This material meets or exceeds this standard: ASTM D3350, Cell Class PE334480A

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
PHYSICAL			
Melt Flow Rate (190 °C, 2.16kg)	D1238	g/10 min	.31
Density	D1505	g/cm ³	0.944
MECHANICAL			
Flexural Modulus ¹	D790	MPa	730
Tensile Strength @ Yield ²	D638	MPa	21
Elongation @ Break ²	D638	%	>500
ESCR	D1693	Hr	100
Thermal Stability	D3350	°C	>220
Brittleness Temperature	D746	°C	>-75

Typical Value of Properties not to be construed as specifications

* Test Made on injection molded Type 1 tension test specimen according to ASTM D2146

1 - @ 0.051 in/min

2 - @ 2 in/min.



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