

Applications

- Telecommunications Pipe
- Drip Irrigation Pipe

Description

HDPE CP4521 is a hexene-based HDPE non-pressure pipe grade made using gas phase technology. It has good long-term hoop strength performance and outstanding toughness even at low temperature. HDPE CP4521 meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact.

Property*	Value	Unit	Method
Melt Index, 190°C/21.6 kg (HLMI)	21	g/10min	ASTM D 1238
Density	0.945	g/cc	ASTM D 1505
Flexural Modulus at 1% Secant (0.5 in/min)	896	MPa	ASTM D 790
Tensile Elongation (Break)	>600	%	ASTM D 638
Tensile Strength at Yield	19.3	MPa	ASTM D 638
Tensile Strength at Break	31.7	MPa	ASTM D 638
Notched Izod Impact Strength (73°F/23°C)	0.24	kJ/m	ASTM D 256
Shore D Hardness	62		ASTM D 2240
Vicat Softening Temperature	121	°C	ASTM D 1525
Heat Deflection Temperature at 66 psi load	63	°C	ASTM D 648

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D4703, Annex A1. The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

This information, to our knowledge, is believed to be correct. The use of this product in its actual conditions are beyond our control and satisfactory results for this product is the customer's sole responsibility. User must make their own decisions regarding its suitability for their equipment and final products.

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