



VALTIS HDI-01

HIGH DENSITY POLYETHYLENE

Technical Data Sheet | FIN-X Polymers

PRODUCT DESCRIPTION

This type of HDPE is a copolymer of ethylene and 1-hexene with Narrow Unimodal MWD.

GENERAL

Category	Details
Processing Methods	Injection Molding
Characteristics	Excellent Impact Strength Good ESCR Good Stiffness
Applications	Industrial Pails Pail Lids

TECHNICAL PROPERTIES

Section	Property / condition	Test method	English value	SI value
Resin	Melt Flow Rate, MFR2 (2.16 kgf / 190°C)	ASTM D1238	6.6 g/10 min	6.6 g/10 min
Resin	Density (23°C)	ASTM D1505	0.953 g/cm ³	0.953 g/cm ³
Resin	Antioxidant Package	---	Yes	Yes
Mechanical	Tensile Strength at Yield (2.0 in/min [50.8 mm/min], Type IV compression molded plaque)	ASTM D638	4,100 psi	28 MPa
Mechanical	Tensile Elongation at Break (2.0 in/min [50.8 mm/min], Type IV compression molded plaque)	ASTM D638	950%	950%
Mechanical	Flexural Modulus (Secant at 1% Elongation - 0.051 in/min [1.3 mm/min])	ASTM D790A	185,000 psi	1,276 MPa
Mechanical	Shore Hardness (Type D Durometer)	ASTM D2240	62.0	62.0
Other	Vicat Softening Temperature - VST (10 N [1 kg], 50°C/h)	ASTM D1525	257°F	125°C
Other	Environmental Stress Crack Resistance - ESCR (Condition B: 100% Igepal at 50°C, F50)	ASTM D1693	20 h	20 h

DATA NOTICE

The data presented here is true and accurate to the best of our knowledge. Likewise, the values are nominal and should not be taken as minimum or maximum specifications. No warranty, express or implied, is made regarding resin performance. The customer must validate these properties according to his own evaluations on his machine and in his laboratory.

REGULATORY NOTES

This resin complies with the following FDA regulation: 21 CFR 177.1520: Olefinic Polymers. This regulation describes polyolefin resins that can be used safely for food packaging and preservation at low temperatures and at ambient temperatures. This resin is not designed for use in medical applications and should not be used in such applications.

Values are typical and are not to be construed as specifications. Validate performance for the intended application before final material selection.