

Typical Engineering Properties of High Density Polyethylene

General Properties	English Units	SI Units
CAS Number		
Ethylene homopolymer	9002-88-4	
1-butene-ethylene copolymer	25087-34-7	
1-hexene-ethylene copolymer	25213-02-9	
Molecular Weight	0.062 lbs	28.0 g
Density	0.0336-0.0349 lbs/in ³	0.930-0.965 g/cm ³
Melt Density	0.027 lbs/in ³	0.764 g/cm ³
Bulk Density		
Pellets	35 – 38 lbs./ft ³	561 – 609 kg/m ³
Flake	31 – 34 lbs./ft ³	497 – 545 kg/m ³
Permeability Coefficients:		
Water (@ 25 °C)	1.7x10 ⁻¹² in ² /sec ² -atm	1.3x10 ⁻¹⁰ cm ² /(sec-cm Hg)
Oxygen (@ 30 °C)	1.4x10 ⁻¹² in ² /sec ² -atm	1.06x10 ⁻¹⁰ cm ² /(sec-cm Hg)
Carbon Dioxide (@ 30 °C)	4.6x10 ⁻¹² in ² /sec ² -atm	3.5x10 ⁻¹⁰ cm ² /(sec-cm Hg)
Nitrogen (@ 30 °C)	0.35x10 ⁻¹² in ² /sec ² -atm	0.27x10 ⁻¹⁰ cm ² /(sec-cm Hg)
Water Absorption @ 24 h Immersion	0.03%	0.03%
Mechanical Properties		
Modulus of Elasticity (Young's Modulus)		
Homopolymer	150,000 psi	1,035 N/mm ²
Copolymer	60,000 – 145,000 psi	400 – 1,000 N/mm ²
Poisson's Ratio	0.40 - 0.45	0.40 - 0.45
Hardness, Shore D Scale	55 – 70	55 – 70
Coefficient of Friction	0.29	0.29
Thermal Properties		
DSC Melting Point		
Homopolymer	275 °F	135 °C
Copolymer	230 – 273 °F	110 – 134 °C
Specific Heat (@ 23 °C)		2.25 kJ/kg °K
Heat of Fusion		
Homopolymer		245 kJ/kg
Copolymer		140 – 232 kJ/kg
Thermal conductivity		
Homopolymer		0.49 W / m °K
Copolymer		0.40 – 0.47 W / m °K
Vicat Softening Temperature		
Homopolymer	270 °F	132 °C
Copolymer	233 – 266 °F	112 – 130 °C

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Density Oscillating Ineos

Patrick Vollmar



Density Oscillating Ineos:

Handbook of Industrial Polyethylene and Technology Mark A. Spalding, Ananda Chatterjee, 2017-10-12 This handbook provides an exhaustive description of polyethylene The 50 chapters are written by some of the most experienced and prominent authors in the field providing a truly unique view of polyethylene The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene high density polyethylene copolymers and polyethylene produced from metallocene catalysts With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing fillers processing aids anti fogging agents pigments and flame retardants Common processing methods including extrusion blown film cast film injection molding and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding fiber processing pipe extrusion reactive extrusion wire and cable and foaming processes The business of polyethylene including markets world capacity and future prospects are detailed This handbook provides the most current and complete technology assessments and business practices for polyethylene resins *Ullmann's Polymers and Plastics, 4 Volume Set* Wiley-VCH, 2016-04-25 Your personal Ullmann's Chemical and physical characteristics production processes and production figures main applications toxicology and safety information are all to be found here in one single resource bringing the vast knowledge of the Ullmann's Encyclopedia to the desks of industrial chemists and chemical engineers The ULLMANN'S perspective on polymers and plastics brings reliable information on more than 1500 compounds and products straight to your desktop Carefully selected best of compilation of 61 topical articles from the Encyclopedia of Industrial Chemistry on economically important polymers provide a wealth of chemical physical and economic data on more than 1000 different polymers and hundreds of modifications Contains a wealth of information on the production and use of all industrially relevant polymers and plastics including organic and inorganic polymers fibers foams and resins Extensively updated more than 30% of the content has been added or updated since the launch of the 7th edition of the Ullmann's encyclopedia in 2011 and is now available in print for the first time 4 Volumes **Polymeric Cryogels** Oguz Okay, 2014-06-02 A Brief History of Polymeric Cryogels Vladimir I Lozinsky Basic Principles of Cryotropic Gelation Vladimir I Lozinsky Oguz Okay Synthesis Structure Property Relationships of Cryogels Oguz Okay Vladimir I Lozinsky Kinetic Analysis of Cryotropic Gelation of Poly vinyl alcohol water Solutions by Small Angle Neutron Scattering Claudio De Rosa Finizia Auriemma Rocco Di Girolamo Cryogels via UV Irradiation Technique Petar D Petrov Christo B Tsvetanov Inorganic Cryogels Oleg A Shlyakhtin Cryogels for Biotechnological Applications Bo Mattiasson Poly vinyl alcohol Cryogels for Biomedical Applications Wankei Wan A Dawn Bannerman Lifang Yang Helium Mak Ullmann's Polymers and Plastics

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