

Hdpe properties pdf

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DSC Melting Point Homopolymer Copolymer Specific Heat (@°C) Heat of Fusion Homopolymer Copolymer Thermal conductivity Homopolymer Copolymer Vicat Softening Temperature Homopolymer Copolymer °F - °F °C - °C kJ/kg °K kJ/kg - kJ/kg W m °K TYPICAL PROPERTIES of POLYETHYLENE ASTM or UL test Property LDPE HDPE UHMW PHYSICAL D Density (lb/in³) (g/cm³) D Water Absorption, hrs (%) < < < MECHANICAL D Tensile Strength (psi) at °F 1, 4, 5, D Tensile Strength (psi) at °F The "Typical" properties of our high density polyethylene cannot be automatically used when engineering finished components; and the fabricator or end user is responsible for insuring the suitability of our products for their specific application or end use. HDPE (high density polyethylene) is available in sheet and rod for applications that require greater strength and stiffness than LDPE (low density polyethylene). Applications Tanks and vessels Food cutting boards HDPE is easy to weld using thermoplastic welding equipment and is an excellent choice for fabricated water tanks and chemical tanks that must be assembled by thermoplastic Thermal Properties. The following information corresponds with our current knowledge and indicates our products and possible applications. HDPE Black. It is easy to fabricate and weld using thermoplastic welding equipment and is an excellent choice for We cannot give a legally binding The "Typical" properties of our high density polyethylene cannot be automatically used when engineering finished components; and the fabricator or end user is responsible for Durable, versatile, low cost, abrasion and chemically resistant plastic material. SP Rev. HDPE Natural PE/PE-HWST (High Density Polyethylene) Colour: Natural Density: g/cm³ Mechanical Properties Value Unit DIN/EN/ISO Tensile strength at yield MPa / D Elongation at yield % Modulus of elasticity in tension MPa / D Modulus of elasticity in flexure MPa / D Durable, versatile, low cost, abrasion and chemically resistant plastic material. HDPE (high density polyethylene) is available in sheet and rod for applications that require greater Standard HDPE Sheet Excellent overall mechanical properties Easy to machine and weld High chemical resistance.

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Sommaire

Étape 1 -
Commentaires

Matériaux

Outils

Étape 1 -
