HDPE Balls

Formula: HDPE
Diameter: 31.75mm
Quantity: 10 Pcs
Colour: Natural
CAS Number: 9002-88-4
UOM Code: 606-064-02
SKU: 1000085746-group
Product Code: ET32-SP-000132

Material Properties for Polymers

Chemical Resistance

Element	Value
Acids - concentrated	Good-Fair
Acids - dilute	Good
Alcohols	Good
Alkalis	Good
Aromatic hydrocarbons	Fair
Greases and Oils	Good-Fair
Halogenated Hydrocarbons	Fair-Poor
Halogens	Fair-Poor
Ketones	Good-Fair

Mechanical Properties

Element	Value
Coefficient of friction	0.29
Hardness - Rockwell	D60-73 - Shore
Poisson's ratio	0.46
Tensile modulus(GPa)	0.5-1.2
Izod impact strength(J m?¹)	20-210
Tensile strength(MPa)	15-40

Electrical Properties

Element	Value
Dielectric constant @1MHz	2.3-2.4
Dissipation factor @ 1MHz	1-10x 10??
Dielectric strength(kV mm?¹)	22
Surface resistivity(Ohm/sq)	10^{13}
Volume resistivity(Ohmcm)	10^{1}?-10^{1}?

Physical Properties

Element	Value
Flammability	HB
Radiation resistance	Fair
Refractive index	1.54
Resistance to Ultra-violet	Poor
Limiting oxygen index(%)	17
Water absorption - over 24 hours(%)	0.01
Density(gcm?³)	0.95

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	75
Heat-deflection temperature - 1.8MPa(C)	46
Upper working temperature(C)	55-120
Specific heat(J K?¹ kg?¹)	1900
Thermal conductivity(W m?¹ K?¹)	0.45-0.52@23°C
Coefficient of thermal expansion(x10?? K?¹)	100-200