

Material: High-Density-Polyethylene

Abbreviation: HDPE-300



Short description of material:

HDPE has High tenacity, wear resistance, low coefficient Of friction, and are perfectly machinable. They are widely used In chemical industry as corrosion protection materials, in Construction for lining and paneling, packaging and food industry. They also used in engineering applications as support structures, Fire resistance materials and sliding pads. The surface of the HDPE Is smooth and has a relatively low coefficient of friction

Application examples:

- * Valves Body.
- * Wear Pads.
- * Rollers.
- * Machined parts.
- * Washers.
- * Tanks.
- * Pads

Colors: White, black

Parameter	Value
Molecular Weight, million	1
Density, g/cm ³	0.94 to 0.96
Water absorption, %	< 0.01
Tensile Strength, MPa	21 ~ 37
Impact Strength, KJ/M ²	1.7 ~ 4.2
Bending Strength, MPA	68.0
Flexural Strength, kg/cm ²	70.0
Rockwell hardness, Shore D	D65 - 70
Temperature of thermal deformation. Deg C	72.0
Thermal Conductivity, kcal/m.Hr. ⁰ C	0.21
Coefficient of linear thermal expansion, X10-5 ⁰ C	11
Coefficient of fiction	0.08 ~ 0.17
Dielectric breakdown strengths, kV/mm	45-50
Coefficient of volume resistance, ohm-cm	10 ¹⁷

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