



DELTA PLASTICS

## Polyethylene (Low Density) LDPE, LLDPE

### APPLICATIONS

Squeeze bottles, toys, carrier bags, high frequency insulation, chemical tank linings, heavy duty sacks, general packaging, gas and water pipes.

### PROPERTIES

Semi-rigid, translucent, very tough, weatherproof, good chemical resistance, low water absorption, easily processed by most methods, low cost.

### PHYSICAL PROPERTIES

Tensile Strength **0.20 - 0.40 N/mm<sup>2</sup>**  
Notched Impact Strength **no break Kj/m<sup>2</sup>**  
Thermal Coefficient of expansion **100 - 220 x 10<sup>-6</sup>**  
Max Cont Use Temp **65 oC**  
Density **0.917 - 0.930 g/cm<sup>3</sup>**

### RESISTANCE TO CHEMICALS

Dilute Acid \*\*\*\*  
Dilute Alkalis \*\*\*\*  
Oils and Greases \*\* variable  
Aliphatic Hydrocarbons \*  
Aromatic Hydrocarbons \*  
Halogenated Hydrocarbons \*  
Alcohols \*\*\*\*

*KEY \* poor \*\* moderate \*\*\* good \*\*\*\* very good*

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## Polyethylene (High Density) HDPE

### APPLICATIONS

Chemical drums, jerricans, carboys, toys, picnic ware, household and kitchenware, cable insulation, carrier bags, food wrapping material, tubes.

### PROPERTIES

Flexible, translucent/waxy, weatherproof, good low temperature toughness (to -60°C), easy to process by most methods, low cost, good chemical resistance.

### PHYSICAL PROPERTIES

Tensile Strength **0.20 - 0.40 N/mm<sup>2</sup>**  
Notched Impact Strength **no break Kj/m<sup>2</sup>**  
Thermal Coefficient of expansion **100 - 220 x 10<sup>-6</sup>**  
Max Cont Use Temp **65 oC**  
Density **0.944 - 0.965 g/cm<sup>3</sup>**

### RESISTANCE TO CHEMICALS

Dilute Acid \*\*\*\*  
Dilute Alkalis \*\*\*\*  
Oils and Greases \*\* variable  
Aliphatic Hydrocarbons \*  
Aromatic Hydrocarbons \*  
Halogenated Hydrocarbons \*  
Alcohols \*\*\*\*

*KEY \* poor \*\* moderate \*\*\* good \*\*\*\* very good*

## CONTACT

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