

PQR OF PLASTIC PART

HDPE, also known as high density polyethylene is a commonly used standard polyethylene. HDPE is used in various types of applications where great impact and tensile strength are needed while absorbing little moisture and being corrosion resistant. Typically material can be extruded up to 1" thick and pressed to make thicker sheets.

Name of component	a) Cap b) Thread Plug gauge
Material	HDPE
Max usage temperature-	70 - 80°C
Short term max usage temperature-	90 - 120°C
Density g/cm³-	0.95
Ignition temperature-	350 - 360°C
Humidity absorption-	<0.1%
Coefficient of Friction-	0.29
Hardness Rockwell Shore	D60-73
Poisson's ratio	0.46
Tensile strength (MPa)	15-40

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