

## CPC - Vycom HITEC® Pipe Grade HDPE High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

Hitec pipe grade HDPE is a special formulation that has high impact strength, and environmental stress crack resistance. Hitec Pipe grade meets Federal specification L-P 390C, ASTM D1248 Type III weather resistant black and ASTM 3350 cell class 345464C. FEATURES AND BENEFITS Hardness- Hitec Pipe Grade is abrasion resistant and will resist scratching. Strength- Hitec Pipe Grade has high tensile and stiffness for machine parts and tank applications. Ductility- Hitec Pipe Grade is stress crack resistant. Machinable- Hitec Pipe Grade is easy to machine with conventional tools. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CPC-Vycom-HITEC-Pipe-Grade-HDPE-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_CPC-Vycom-HITEC-Pipe-Grade-HDPE-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 lb/in <sup>3</sup>	ASTM D792
Environmental Stress Crack Resistance	>= 1000 hour @Temperature >=50.0 °C	>= 1000 hour @Temperature >=122 °F	Igepal (no failures); ASTM F1248
ESCR 100% Igepal®	>= 5000 hour	>= 5000 hour	no failures; ASTM D 1693C

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	49	49	ASTM D785
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength, Ultimate	>= 22.8 MPa @Thickness 3.17 mm	>= 3300 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus	0.862 GPa	125 ksi	at 2% Strain; ASTM D3350
2% Secant Modulus	0.793 GPa	115 ksi	ASTM D638
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D 256A
Hydrostatic Design Basis	11.0 MPa	1600 psi	100,000 hrs.; ASTM D2837

Thermal Properties	Metric	English	Comments
CTE, linear	180 µm/m-°C @Temperature 20.0 °C	100 µin/in-°F @Temperature 68.0 °F	ASTM D648
Melting Point	127 °C	260 °F	ASTM D3417

Vicat Softening Point Thermal Properties	124 °C Metric	255 °F English	ASTM D1525 Comments
Brittleness Temperature	-118 °C	-180 °F	ASTM D746

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