

CPC - Vycom HITEC® HDPE High Density Polyethylene

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

Material Notes:

Hitec HDPE is a high impact, high density polyethylene sheet. It is ideally suited for the manufacture of chemical resistant products which come in direct contact with foodstuffs. Hitec meets the standard established by Food and Drug Regulation 21 CFR 177.52 for all food contact, USDA, and the Department of Canadian Agriculture. FEATURES AND BENEFITS Hardness- Hitec is abrasion resistant and will resist scratching. Strength- Hitec has high tensile and stiffness for machine parts and tank applications. Ductility- Hitec is stress crack resistant. Machinable- Hitec is easy to machine with conventional tools. NSF- The National Sanitation Foundation has approved natural Hitec for food grade contact in food equipment. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

http://www.lookpolymers.com/polymer_CPC-Vycom-HITEC-HDPE-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	<= 5000 hour	<= 5000 hour	F50; ASTM D1693
	<= 5000 hour	<= 5000 hour	F50; ASTM D2561
Melt Index of Compound	0.70 g/10 min	0.70 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.55 GPa	225 ksi	ASTM D790
Tensile Impact	53.4 J/cm	100 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	77.8 °C	172 °F	ASTM D648
Vicat Softening Point	125 °C	257 °F	ASTM D1525
Brittleness Temperature	<= -51.1 °C	<= -60.0 °F	ASTM D746

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