



**CUT TO SIZE
plastics**

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TECHNICAL DATE SHEET - HDPE

I. Physical Properties	ASTM test	Unit i. e.	HDPE
1. Specific gravity	D792	g/cm ³	0,941-0.965
2. Specific volume	D792	in ³ /lb	29.4-28.7
3. Water absorption, 24h, 1/8-in thk	D570	%	<0.01
II. Mechanical Properties			
1. Tensile strength	D638	psi	3,100-5,500
2. Elongation	D638	%	20-1000
3. Tensile modulus	D638	10 ⁵ psi	0.6-1.8
4. Flexural modulus	D790	10 ⁵ psi	1.0-2.0
5. Impact strength, Izod	D256	ft-lb/in of notch	0.5-20
6. Hardness, Rockwell R	D785		65
III. Thermal Properties			
1. Thermal conductivity	C177	10 ⁴ cal-cm/sec-cm ² - °C	11.0-12.4
2. Coefficient of thermal expansion	D696	10 ⁵ in/in °F	6.1-7.2
3. Deflection temperature	D648	°F	
at 264 psi			110-130
at 66 psi			140-190
IV. Electrical Properties			
1. Dielectric strength, short time, 1/8-in thk	D149	V/mil	450-500
2. Dielectric constant at 1 kHz	D150		2.30-2.35
3. Dissipation factor at 1 kHz	D150		0.0003
4. Volume resistivity at 73°F, 50% RH	D257	Ω x cm	10 ¹⁵
V. Optical			
1. Refractive index	D542		1.54
2. Transmittance	D1003	%	10-50

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For the most recent technical data and free application advice, please call Cut To Size Plastics on: (02) 9681 0400.