

## Polyethylene

### DESCRIPTION:

Polyethylene provides a good balance of strength, low temperature performance, and colorability. Available as a natural colored, colorable compound.

PROPERTY	TYPICAL VALUE	UNITS	ASTM METHOD
<b>PHYSICAL</b>			
Rockwell Hardness	79	R scale	D-785
Specific Gravity	0.95		D-792
<b>MECHANICAL</b>			
Flexural Modulus	120,000	psi	D-790
Flexural Strength	3000	psi	D-790
Tensile Modulus	180,00	psi	D-638
Tensile Strength	2900	psi	D-638
Tensile Elongation	15	%	D-638
Notched Izod Impact	1.0	ft-lb/in	D-256
Un-notched Izod Impact	No break	ft-lb/in	D-256
<b>THERMAL</b>			
Heat Deflection Temp			D-648
0.125 in @ 66 psi	180	° F	
0.125 in @ 264 psi	130	° F	
Coefficient of Linear Thermal Expansion	$6.8 \times 10^{-5}$	in/in/°F	D-696
<b>FLAMMABILITY</b>			
Flame Rating – UL at 0.0625"	HB		UL94

The information provided above is based on typical values, and is believed to be reliable. No warranty is given as to the suitability of the product for a particular application. Determination of the suitability of this product for any use is solely the responsibility of the user.