

Precision Punch & Plastics Co.

Hybrid Polymer PUHY-80D - is a hard , strong, tough , and corrosion resistant polymer, that can be easily machined.

Applications:

Industrial parts: bearings, pulleys, gears, sprockets, sheaves,pump impellers, housings, pushers, shrouds, handles, nozzles, nests, chutes.

Electronic equipment: insulators, housings, switch covers, spacers.

Typical Physical properties :

Property	Value	ASTM Method
Hardness, Shore "D"	80	-----
Density, gm/cc	1.16	D-792
Tensile Strength,psi	12,000	D-638
Tensile Modulus,psi	314,000	D-638
Elongation, %	10	D-638
Flex Strength, psi	12,000	D-790
Flex Modulus,psi	280,000	D-790
Compressive strength,psi	9,200	D-695
Izod Impact, Ft.-lb/in notch	1.0	D-256
Izod Impact, unnotched	14.0	D-256
Shear strength, psi	5,300	D-732
Coefficient linear exp. , in/in/F	5.8×10^{-5}	-----
Heat Distortion,F @ 66psi	210	D-648
Heat Distortion, F @ 264 psi	190	D-648
Dielectric Strength, volts/mil	350	D-149
Arc Resistance, sec.	98	D-495

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