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ACETAL (Delrin®)

Acetal is an engineering thermoplastic based on formaldehyde polymerization technology. This material has an outstanding balance of tensile properties, shear strength, stiffness and toughness. It is an excellent bearing material due to its very low coefficient of friction and excellent abrasion resistance against metals, acetal, and other plastics.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	UNITS	ASTM	TYPICAL
Specific Gravity, 73 Deg. F.	-	D792	1.41
Tensile Strength, 73 Deg. F.	psi	D-638	11,000
Tensile Modulus of Elast, 73 Deg. F.	psi	D-638	450,000
Tensile Elongation, 73 Deg. F.	%	D-638	30
Flexural Strength, 73 Deg. F.	psi	D-790	13,000
Flexural Modulus of Elast., 73 Deg. F.	psi	D-790	450,000
Shear Strength, 73 Deg. F.	psi	D-732	9,000
Compressive Strength, 10% deformation	psi	D-695	16,000
Coefficient of Friction (Dry vs. Steel)	-	-	0.25
Izod Impact (notched), 73 Deg. F.	ft lb/in	D-256	1.0
Coefficient of Linear Therm. Expansion	in/in/F.	D-696	4.7 x 10(-5)
Heat Deflection Temp. @ 264 psi	Deg. F.	D-648	255
Melting Point	Deg. F.	D-789	347
Continuous Service Temp., Air, Max.	Deg. F.	-	220
Dielectric Strength	V/mil	D-149	2,100
Volume Resistivity	ohm-cm	D-257	10(14)
Water Absorption, Immersion - 24 hrs.	%	D-570	0.22

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability.