



ENSITAL SD STATIC DISSIPATIVE ACETAL

Hydel ASD is an electrically active composite made up of acetal and a non-carbon, non-fiber filler. Hydel ASD provides excellent wear resistance and anti-static properties (surface resistivity of $10^9 - 10^{11}$ ohms/sq).

Hydel® ASD can be used for wear applications in assemblies where the prevention and/or the controlled dissipation of static charges is required. Components such as rollers, bushings, gears, hinges, and wear strips used in equipment utilizing semi-conductor and electronic devices are ideal candidates for Hydel ASD.

Hydel ASD has the following features:

- Hydel ASD will dissipate static electrical charges at a controlled rate that will not damage sensitive semi-conductor devices.
- Hydel ASD has outstanding wear resistance and will outlast steel, brass, bronze, and aluminum in most applications.
- Hydel ASD is non-sloughing (no conductive particle generation during wear).
- Hydel ASD's natural color is off white and the material is fully colorable.
- Hydel ASD shares the excellent dimensional stability and machinability properties offered by acetal.

PROPERTY	ASTM METHOD	UNITS	RESULTS
Specific Gravity	D792	—	1.33
Water Absorption	D570	%	0.20
Tensile Strength	D638	PSI	6,600
Flexural Strength	D790	%	45
Tensile Elongation	D638	PSI	7,000
Flexural Modulus	D790	PSI	210,000
Izod Impact (Notched)	D256	Ft.Lb./In.	2.0
HDT @ 66 PSI	D648	Deg°F	190
Coef. of Friction:			
Static	40 PSI	—	0.11
Dynamic	40 PSI, 50 FPM	—	0.18
Surface Resistivity	D257	ohms/sq.	$10^9 - 10^{11}$
Volume resistivity	D257	ohms x cm	$10^9 - 10^{11}$

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