

## **TECAFORM™ AH ID**

## (Metal Detectable Acetal)

Until now, when a food processor or other manufacturer needed a means of detecting the presence of foreign substances in the product, they had no choice but to use highly visible

colored materials for their plastic parts. TECAFORM AH ID is the first commercially available thermoplastic that can be detected by the standard metal detection equipment that is typically used in quality inspection. This advancement in technology will reduce the risk of product contamination, and help minimize the possibility of significant financial loss.

- Detectable by standard metal detection equipment
- Excellent machinability
- Manufactured from resin that is FDA compliant
- Good combination of mechanical properties
- Resistance to washdown chemicals
   TECAFORM ™ is resistant to aqueous solutions with pH values
   ranging from 4 to 14.
- Good wear and abrasion properties
- Low moisture absorption
- Good dimensional stability
- Good property retention at elevated temperatures
- Grey in color

TECAFORM™ AH ID can be used in a variety of food industry applications requiring good strength and toughness, dimensional stability, wear resistance and the ability to operate in a wet environment with little moisture absorption. Fillers, conveyors and forming equipment are among the pieces of food machinery that utilize TECAFORM™'s combination of properties. Typical applications are gears, wear strips, bushings, pump parts, form dies and rollers.

## **TYPICAL PROPERTY VALUES**

	PROPERTIES	ASTM Test Method	Units	TECAFORM™ AH ID
PHYSICAL	Density Specific Gravity Water Absorption, @24 hours, 73°F @Saturation, 73°F	D792 D792 D570 D570	lbs/in³ g/cc % %	0.0507 1.48 0.22 0.65
MECHANICAL	Tensile Strength @ Yield, 73°F Tensile Modulus Elongation @ Break, 73°F Flexural Strength, 73°F Flexural Modulus, 73°F Compressive Strength Izod Impact Strength, 73°F Rockwell Hardness, 73°F Shore Hardness Wear Factor Against Steel, 40 psi, 50 fpm s  Static Coefficient of Friction Dynamic Coefficient of Friction, 40 psi, 50 fpm	D638 D639 D638 D790 D790 D695 D256 D785 - D3702 D3702	psi psi % psi psi psi psi ft-lbs/in M Scale D Scale in³ x 1 hr PV -	9,280 406,000 25 11,000 360,000 4,500 1.0 86 - 65 x 10 <sup>-10</sup>
THERMAL	Heat Deflection Temperature @ 66 psi @ 264 psi Coefficient of Linear Thermal Expansion Maximum Servicing Temperature, Intermittent Long Term Specific Heat Thermal Conductivity Vicat Softening Point Melting Point Flammability	D648 D648 D696 - UL746B - - - D2133 UL94	°F °F in/in/°F °F °F BTU/lb-°F - °F °F	316 230 6.1 x 10 <sup>5</sup> 285 212 - - - 329 HB
ELECTRICAL	Surface Resistivity Volume Resistivity Dielectric Strength Dielectric Constant, @ 60 Hz, 73°F, 50% RH	D257 D257 D149 D150 D150 D150 D150 D150	ohm/square ohm-cm V/mil - - - - -	1.0 x 10 <sup>12</sup>

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability. All trade and patent rights should be observed. All rights reserved. Data obtained from extruded shapes material.

## **MATERIAL AVAILABILITY**

**Rods:** Call for availability.

Primary Specification (Resin) (Typical)

Grey ASTM-D-6778 POM0211

Plates: Call for availability

**Shapes Specification (Typical) Grey** ASTM-D-6100 S-POM0211

Profiles, tubes, and special sizes are custom-produced on request.



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