TECAFORM® AH ID

Acetal (POM) Copolymer

Ensinger Inc.

Message:

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.
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.

General Information			
Features	Metal Detectable Good dimensional stability Low hygroscopicity Machinable Good wear resistance Good chemical resistance Good wear resistance Compliance of Food Exposure		
Uses	Pump parts Bushing Gear Conveyor Wear strip Roller Fill application		
Agency Ratings	FDA not rated		
Appearance	Grey		
Forms	Shapes		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.48	g/cm³	ASTM D792
Water Absorption			ASTM D570
23°C, 24 hr	0.22	%	ASTM D570
Saturated, 23°C	0.65	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 23°C)	91		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3100	MPa	ASTM D638

Tensile Strength (Yield, 23°C)	65.5	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	10	%	ASTM D638
Flexural Modulus (23°C)	3380	MPa	ASTM D790
Flexural Strength (23°C)	103	MPa	ASTM D790
Compressive Strength (1% Strain)	21.4	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Unnotched Izod Impact (23°C)	41	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	165	°C	ASTM D2133
CLTE - Flow	1.4E-4	cm/cm/°C	ASTM D696
Maximum Service Temperature			
Intermittent	141	°C	
Long Term	100	°C	UL 746B
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Additional Information			

Data obtained from extruded shapes material.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT