



## **WEARGEHR Acetal FG**

*FDA compliant, Acetal Copolymer with increased wear*

### **WEARGEHR® Acetal FG**

The material is a wear resistant grade of our GEHR Acetal copolymer: it contains a solid filler for enhanced impact, friction and wear properties. It is also FDA compliant. There is not any PTFE in our product. This is an alternative to the well known Delrin AF® material – with additional FDA.

Some material property data:

- Specific gravity per ASTM D792-08 Method A = 1.34 g/cm<sup>3</sup>
- Coefficient of Linear Thermal Expansion (approx.) = 6.50 x 10<sup>-5</sup> in/in/° F
- Moisture absorption (24 hours) per ASTM D 570-98 = 0.10%
- Kinetic Coefficient of Friction per ASTM D 3702-94 = 0.14
- Wear Factor "K" per ASTM D 3702-94 = 1.5E-08
- Tensile Strength = 43 MPa per ISO 527
- Modulus of Elasticity = 2200 MPa per ISO 527
- PV rating per ASTM D 3702-94 = 7,125 (with a 4 to 1 safety ratio)
- Upper temperature limit = + 100° C
- Lower temperature limit = - 40° C
- Heat Deflection Temperature (HDT) = + 120° C per ISO 75
- Flammability = UL94 HB

Applications for the material are sleeve bearings, flanged bearings, scraper blades, rollers for food processing equipment, augers for conveying equipment, drive sprockets and idler wheels for conveying equipment, timing screws for packaging equipment, mixing paddles for processing equipment, wear strips for food conveying equipment, pistons and valves on dairy food processing equipment, starwheels for bottling equipment, and all types of components for conveying, packaging and processing equipment, etc. Also it is a great replacement for metal pillow block bearings.

We are more than happy to work with you to offer a wear resistant "problem fixer" to your Acetal applications with our new material. Additionally it can replace PET-P where brittleness or impact is an issue. The product is extruded in Mannheim, Germany so the dimensions are in metric. Rod and sheet.

Sincerely,



**Plastics, Inc.**

Naamans Creek Center, 24 Creek Circle, Boothwyn, PA 19061

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