

Inhance Fluoro-Seal INHANCE[®] Ti--9113 Titanium Carbide Polymer Alloy

Category : Ceramic , Carbide , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Product Description: INHANCE Ti-9113 polymer alloy consists of spherically shaped titanium carbide micro grains chemically bonded to surface-activated Ultra High Molecular Weight Polyethylene (UHMW PE) particles. This product was designed for alloying with various polymer materials. When incorporated in polymers, unique grades of highperformance polymeric composites are formed that have exceptional abrasion-resistance, wear performance, and surface lubricity qualities. Frequently these composites have abrasion resistance greater than metal. They are also are light weight, non-corroding, and electrically non-conductive. Applications: Ideal applications include machinery parts and mechanical components for severe-service mechanical or chemical environments, where repair/replacement of worn parts is very costly because of down time, and where optimal performance is needed. Examples include pump impellers, valve seats, piston rings, gears, seal rings, bearings, liners, wearplates, guide-rails, as well as cable (protective jacketing), steel replacement parts, and high performance coatings. Information provided by Inhance/Fluoro-Seal, Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Inhance-Fluoro-Seal-INHANCE-Ti-9113-Titanium-Carbide-Polymer-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.58 g/cc	2.58 g/cc	
Bulk Density	0.970 - 1.03 g/cc	0.0350 - 0.0372 lb/in ³	
Grain Size	1.0 - 2.0 μm	1.0 - 2.0 μm	
Particle Size	63 μm	63 μm	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	3400	3400	

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