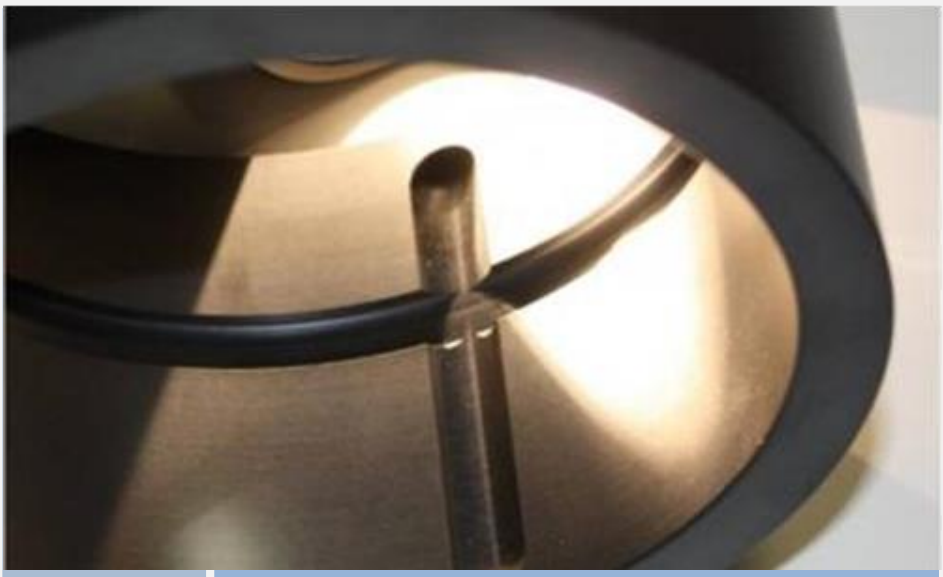
LANSON POLYMERS
Engineering Solutions



Lansonite™ CPC320

DESCRIPTION:

A thermoplastic composite material utilising a unique combination of ingredients for bearings and wear parts requiring extremely high abrasion resistance.
Lansonite™ CPC320 addresses the gap between traditional thermoplastics and harder ceramic materials.
It has been developed to replace Silicon Carbide / Ceramic bearings in moderate temperature applications where the end user needs very high abrasion resistance, without the common problems such as; thermal shock , brittleness, chipping off, press fit problems, vibrations, dry-running etc.
Low friction and non-galling properties making it an ideal choice for pump wear parts, compressor bearings, sliding bearings etc.

CPC320 – Product data

Lansonite™

TYPICAL PROPERTIES – CPC320

Property	Typical Values	ASTM Method
COLOUR	BLACK	
HARDNESS	105	ASTM D2240
SPECIFIC GRAVITY	1.55 g/cm³	ASTM D792
TENSILE STRENGTH	150 MPa	ASTM D638
COMPRESSIVE STRENGTH	150 MPa	ASTM D638
YOUNGS MODULUS	12 GPa	ASTM D638
YIELD STRENGTH	120 MPa	ASTM D638
MAX CONT.OPERATING TEMP	200°C	
COEFFICIENT OF THERMAL EXPANSION	2.6 x10-5 $°C^{-1}$	ASTM D696
COEFFICIENT OF FRICTION	0.13	

Water Regulations Advisory Scheme, WRAS - APPROVED

FEATURES:

- ***Thermal Shock Resistance***
- ***Impact Resistance***
- ***Dry Run Capabilities***
- ***Outstanding Bearing Properties***
- ***Excellent Abrasion Resistance***
- ***Excellent Chemical Resistance***
- ***High Mechanical Strength***
- ***Non-Galling / Non-Seizing***
- ***Non-Brittle***

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