

Large Mold with UltraKoat

ULTRAKOAT The preferred coating of many molders. UltraKoat is a state of the art coating providing a very low coefficient of friction in wear applications without reduction of hardness experienced with other coatings. ULTRAKOAT can be heat-treated to a hardness approaching 900 VHN, producing an extremely slick; abrasion and wear resistant surface. This coating contains sub-micron particles of diamond-like material that provide it with superior abrasion resistance. UltraKoat has a lower coefficient of friction than coatings containing Teflon. Unlike Teflon, which will start to decompose at 600 degrees F, UltraKoat will maintain its integrity up to the melting point of 1900 degrees F.

USER BENEFITS

Excellent for blow molding applications
Uniform Coating
Extreme Abrasion Resistance

Pleasing Light Gray Color
Can be Applied to any Metal
Excellent Release Properties

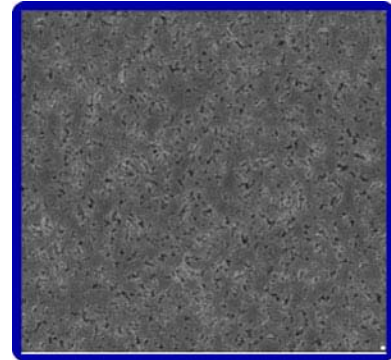
PROPERTIES

Hardness (VHN)
As Plated
HT @ 590 F, 3-Hours
Coefficient of Friction (static)
Melting Range
Density (g/cc)
Magnetic Properties
Wear Resistance
(Taber Wear Test)
Internal Stress
Corrosion Resistance

TYPICAL VALUE

600-700 VHN
850-970 VHN
0.1 static
1900-2200 F/1050-1200 C
8.4 g/cc
Slightly Magnetic

Wt/loss/mg 1000 cycles: 1-2
Kpsi: -2.6 (compressive)
100 Hours (Can be improved considerably with an undercoat of TM 103)



Cross-section of coating. Please note the even dispersion of Diamond-like particles that improve release & wear.

Unlike Teflon co-deposits, UltraKoat can perform in temperature from 1900 degrees F to its melting point



PO Box 1266 Dayton, Ohio 45403 (937)253-5311