



## **REDWOOD** PLASTICS AND RUBBER

### **PLASTIC BEARING EXTERNAL LUBRICATION**

Although plastic materials are petroleum based and can be cast to include internal lubricants (ie. Molybdenum Disulphide, Oil, Silicone), External Lubrication is often recommended to enhance load and wear life in bearing applications.

For most industrial applications involving Redco Nylon, Tuffkast and or Redco 750/750XL bushings and bearings, EP-2 Moly (Extreme Pressure) Grease is recommended to be used on a regular lubrication schedule\*

EP-2 Moly Typical Physical Characteristics:

Appearance:	Medium Fibred Grease
Color:	Grey/Black
Unworked Penetration:	265-295
Worked Penetration:	265-295
NLGI Classification:	2
Operating Temp Range Deg F:	0 to +280
Drop Point:	355 Deg F
Free Acidity:	0.05%
Free Alkalinity:	0.1%
Oil Separation:	5%
Oxidation Stability:	168 hours @ 210 Deg C
Pressure Drop:	4 psi.
Mild Steel Corrosion:	Negative
Aluminum Corrosion:	Negative
Ventmeter Pressure @ 158 Deg F:	500 psi.
Water Washout @100 Deg F:	3%, @ 175 Deg F: 4%
Timken OK Load:	630 Lbs.
Mean Hertz Load:	55
Solid Lubricant:	Molybdenum Disulphide

\*Due to wide ranging plastic bearing applications, lubrication schedules may vary in frequency.

\*\*When designing a plastic bearing, reference the "Redco Machinist Chart for Plastic Bearings" to account for proper press-fit, running clearance, machining tips etc.