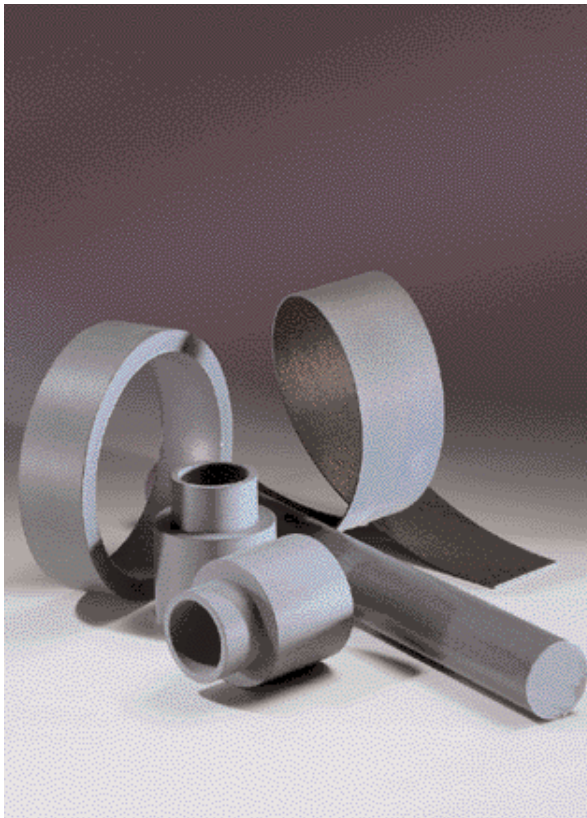


RULON® 142



Rulon® 142 is a specially formulated dull blue-green linear bearing material that exhibits low wear, high thermal dissipation, and good dimensional stability characteristics.

Among its many benefits are the virtual elimination of stick-slip, vibration dampening, self-lubrication, uniform friction, long life, ease of application and design diversity.

Rulon® 142 has excellent mechanical properties and is the ideal material for machine tool applications. Its low deformation characteristics limit the amount of misalignment that can occur with other bearing materials.

Strong acids and bases should be avoided, as they may attack the fillers.

TYPICAL PRODUCT AND APPLICATION DESCRIPTION

PRODUCTS	APPLICATIONS
<ul style="list-style-type: none"> • Packings • Sleeve, flanged and thrust bearings • Piston Rings • Stamped parts • Extruded parts • Machined parts • Molded shapes • Wear Bands • Seal rings 	<ul style="list-style-type: none"> • Lathes • Gibs, guideways • Compressors • Appliances • Rotary tables • Motor mounts • Linear slides • Pipe supports • Hydraulic presses

DESIGN CRITERIA RULON 142

Temperature - Typical Range °F (°C)	-400/+550 (-240/288)
Maximum PV (continuous)(MPa•m/s)	10,000 (0.35)*
Maximum (continuous bonded)	25,000 (0.88)*
Maximum P - psi (static)(MPa)	1000 (6.9)*
Maximum V -SFM (no load)(m/s)	400 (2)
Shaft Hardness - Minimum	Rc35
Shaft finish recommended Ra (μ"/μm)	8 - 16 (0.2-0.4)*
Shaft Material	Mild/Hardened Steel
ENGINEERING INFORMATION	
Friction - static & dynamic	.025 with oil
Flammability ASTM D635	Non-Flammable
Chemical Resistance	No acids or bases
Thermal Conductivity BTU/hr/sq. ft./°F/in.	4.8
Linear Coefficient of (78°-200°F)	Diameter 4.9x10 ⁻⁵ (8.8)*
Thermal Expansion (26° -93°C)	Length 4.9x10 ⁻⁵ (8.8)*
PHYSICAL DATA	
Elongation ASTM D638	200% mold direction
Tensile Strength ASTM D638(MPa)	3100 PSI (21.4)*
Deformation (1500 psi - 24 hr. RT)	3%
Specific Gravity	3.16

A more complete data sheet is available upon request.

*Metric measurements in parentheses