



Material Notes:

Description: Rulon® is the Saint-Gobain trade name for their family of proprietary PTFE compounds. This family of materials offers the combination of high compressive strength, low coefficient of friction, and excellent abrasion and corrosion resistance while running without lubrication. They are used in bearing and seal applications from temperature extremes of 400°F to over 500°F with and without additional lubricants. A unique property of Rulon® is the absence of stick slip, that is, erratic low-speed motion. PTFE = polytetrafluoroethylene

488 Grade Bearing/Seal PTFE: Resistance to high operating temperatures, excellent wear resistance, and compatibility with most mating surfaces, make Rulon® 488 non-lubricated dryer bearings the superior solution to the harsh operating environments of veneer dryers. Unlike other bearings, Rulon® 488 is specifically designed to prevent expensive downtime caused by thermal shock. When used at extreme temperatures and under heavy loads, Rulon® 488 will deform, but will not shatter. This helps to eliminate sudden failures and possible damage to other dryer components. In addition, Rulon® 488 bearings last three times longer than conventional carbon bearings-providing significant cost savings in the long run. Rulon® 488 bearings are also easy to install and need no maintenance, since they are self-lubricated. Turquoise in color.

Specific Gravity, 73°F	2.25	
Tensile Strength @ Yield, 73°F	2,000	psi
Tensile Elongation (at break), 73°F	150	%
Deformation Under Load	3.0	%
Hardness, Durometer (Shore "D" scale)	D-60	
Coefficient of Friction (Dry vs Steel) Dynamic	0.10 to 0.30	
Maximum Static Bearing Load (P)	1000	psi
Maximum Unlubricated No Load Bearing Velocity (V)	400	ft/minute
Maximum Limiting PV (Unlubricated)	10000	psi x ft/min.
Minimum Mating Surface Hardness	B-25 (64)	Rockwell (Brinnell)
Embrittlement Temperature	-400	°F Min.
Continuous Service Temperature in Air	550	°F Max.
Short Term Service Temperature	600	°F Max.
Thermal Conductivity	2.6	BTU-in/(hr/ft ² °F)
Water Absorption, Immersion 24 Hours	nil	%
Water Absorption, Immersion Saturation	nil	%