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Technical Data for M-FLON15GR (15% Graphite filled PTFE)

Property	Unit	Test Method	15% Graphite filled
1. Physical Properties			
Density	gm / cc	ASTM D 792	2.1-2.2
Water Absorption	%	ASTM D 570	0
2. Mechanical Properties			
Tensile Strength	Kgf/Cm ²	ASTM D638	150-200
% Elongation	%	ASTM D 638	150-250
Compressive Strength	Kgf/Cm ²	ASTMD 695	65-75
Hardness	shore D	ASTM D 2240/785	58-65
I. Coefficient of friction			
A. Dynamic P-7Kg/Cm ² V=0.5 M/S	%	ASTMD 1894	11 to 16
B. Static P - 35Kg/Cm ²	%		8 to 10
II. Deformation under load			
A. 2Hrs. @23°C 113kG/ Cm ²	%	ASTM D621	6
B. 24Hrs. @23°C 113kG/ Cm ²	%		8
C. Permanent	%		4.5
A. 2Hrs. @150°C 113kG/ Cm ²	%		43
3. Thermal Properties			
Impact Strength	J/cm	ASTM D256	0.8-0.9
Heat Resistance at amt. Pressure (Continuous service temp)	° C		(-250 to +260)
Thermal conductivity	10-4 cal cm S °C		A/R
A. 30 - 150°C	%	ASTM D 696	1.3/1
B. 30 - 200°C	%	ASTM D 696	2/1.7
C. 30 - 250°C	%	ASTM D 696	2/3.5
4. Electrical Properties			
Dielectrical strength	Kv / mm	ASTM D149	1 to 2
5. Dimensional Stability			
Length	%	ASTM D 1710	1.5-3
Diameter	%	ASTM D 1710	0.5-1
Permeability	%	ASTM D 543	0.01 Max
Dissolution	%	ASTM D 543	0.01 Max

* Note: The following readings have been given without any kind of responsibility taken, expected or implied.