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Issue 2

DATA SHEET

MATERIAL REFERENCE – FLUORINOID® FL 381

DESCRIPTION ACETAL – POM COPOLYMER

TYPICAL APPLICATIONS

A tough plastic with high strength and low creep tendencies, used for the manufacture of seats, bearings, gears, guides and pump components etc. Exhibits very low water absorption and excellent abrasion and wear resistance.

TYPICAL PHYSICAL PROPERTIES

SPECIFIC GRAVITY		1.41	
TENSILE STRENGTH AT YIELD		65 MPa	9500 psi
LONGATION AT BREAK		25 - 45 %	
COMPRESSIVE STRENGTH at	1% strain	10 MDa	2750 mgi
		-	2750 psi
	2% strain	35 MPa	5000 psi
at	5% strain	67 MPa	9700 psi
HARDNESS, ROCKWELL		M84	
MAXIMUM SERVICE TEMPERATURE -c	continuous	105°C	221°F
-in	termittent	140°C	284°F
MINIMUM SERVICE TEMPERATURE		-50°C	-58°F
VICAT SOFTENING TEMPERATURE		150°C	302°F
WATER ABSORPTION -in water at 23°	°C (73°F)	0.8%	
-in air at 23°C (73°F).	` /		
-III all at 25 C (75 1),	, 5070 KH	0.2	. 70
COEFFICIENT OF LINEAR 23-60°C (7	73-140°F)	$110x10^{-6} \text{ K}^{-1}$	
THERMAL EXPANSION 23-100°C (7	73-212°F)	$125 \times 10^{-6} \text{ K}^{-1}$	
WEAR RATE		8.9 µm/km	

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These figures are typical values for the material and do not represent a product specification. Properties will vary depending on the source of raw material, method of processing, physical form of the product, direction of measurement etc.

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(hardened and ground steel, p = 0.05 MPa, v=0.6 m/s)

COEFFICIENT OF FRICTION