Doriflon Specification Sheet

Material Name **PTFE 25% Glass filled**

Description 25% Glass filled PTFE

Remarks and Applications Excellent chemical resistance
Improved wear resistance over virgin PTFE

Typical Properties

Property	Conditions	ISO	Units	Value
General Properties				
Specific Gravity			g/cm³	2.20-2.30
Water Absorption @ 23°C				
- in water 24 hours			%	0.05-0.07
- saturation in water			%	<0.15
Colour				White/Light Grey
Thermal Properties				
Melting Point			°C	327
Minimum Working Temperature			°C	
Continuous Working Temperature			°C	-260 to 285
Thermal Conductivity			W/K.m	0.38
Linear Thermal Expansion Coefficient			$K^{-1}x10^{-5}$	10
Flammability			UL (thickness)	V-0 (2.87mm)
Mechanical Properties				
Tensile Strength @ 23°C, dry			N/mm²	15-19
Tensile Modulus @ 23°C, dry			N/mm²	167-324
Flexural Modulus			N/mm²	1650
Shear Strength			N/mm²	
Elongation @ 23°C, dry			%	250-270
Flexural Strength @ 23°C, dry			N/mm²	
Hardness Shore D @ 23°C, dry				56-64
Hardness Rockwell @ 23°C, dry				
Deformation under load				
- 14 N/mm² for 24 hours at 50°C			%	9.5
- 8 N/mm² for 24 hours at 150°C			%	
- 14 N/mm² for 24 hours at 150°C			%	11.5
Impact Strength			Izod J/m	>700
Electrical Properties				
Volume Resistivity			Ohm.cm	>10^16
Dielectric Strength			kV/mm	>13
Relative Permitivity 50Hz-10kHz				2.2-2.5
Resistance Properties				
Outside Applications - UV Resistance				A
Acids, Weak pH > 3				A
Acids, Strong pH < 3				A
Alkalis, Strong pH > 11				A
Chlorinated Hydrocarbons				A
Hot Water				A