

Doriflon Specification Sheet

Material Name	Acetal				
Description	Acetal copolymer)				
Remarks and Applications	High mechanical strength Good dimensional stability Good sliding properties and wear resistance				
Typical Properties					
Property	Conditions	ISO	Units	Value	
General Properties					
Specific Gravity			g/cm ³	1.41	
Water Absorption @ 23°C					
- in water 24 hours			%	0.22	
- saturation in water			%	0.8	
Colour				White/Black	
Thermal Properties					
Melting Point			°C	165	
Minimum Working Temperature			°C	-50	
Continuous Working Temperature			°C	115	
Thermal Conductivity			W/K.m	.23	
Linear Thermal Expansion Coefficient			K ⁻¹ x10 ⁻⁵	12.5	
Flammability			UL (thickness)	Slow Burning	
Mechanical Properties					
Tensile Strength @ 23°C, dry			N/mm ²	62	
Tensile Modulus @ 23°C, dry			N/mm ²	2795	
Flexural Modulus			N/mm ²	2585	
Shear Strength			N/mm ²	53	
Elongation @ 23°C, dry			%	60	
Flexural Strength @ 23°C, dry			N/mm ²	90	
Hardness Shore D @ 23°C, dry					
Hardness Rockwell @ 23°C, dry				R120	
Deformation under load					
- 14 N/mm ² for 24 hours at 50°C			%	0.9	
- 8 N/mm ² for 24 hours at 150°C			%		
- 14 N/mm ² for 24 hours at 150°C			%		
Impact Strength			Izod J/m	80	
Electrical Properties					
Volume Resistivity			Ohm.cm	>10 ¹⁴	
Dielectric Strength			kV/mm	>16	
Relative Permittivity 50Hz-10kHz				3.7	
Resistance Properties					
Outside Applications - UV Resistance				D	
Acids, Weak pH > 3				C	
Acids, Strong pH < 3				D	
Alkalis, Strong pH > 11				C	
Chlorinated Hydrocarbons				A	
Hot Water				C	