

# Doriflon Specification Sheet

Material Name	<b>Nylatron GS</b>			
Description	PA66 + MoS <sup>2</sup>			
Remarks and Applications	Enhanced bearing & wear properties of normal Nylon 66 Good dimensional stability			
Typical Properties				
Property	Conditions	ISO	Units	Value
<b>General Properties</b>				
Specific Gravity			g/cm <sup>3</sup>	1.14-1.18
Water Absorption @ 23°C				
- in water 24 hours			%	0.5-1.3
- saturation in water			%	6-8
Colour				Grey/Black
<b>Thermal Properties</b>				
Melting Point			°C	260
Minimum Working Temperature			°C	-40
Continuous Working Temperature			°C	100
Thermal Conductivity			W/K.m	.30
Linear Thermal Expansion Coefficient			K <sup>-1</sup> x10 <sup>-5</sup>	6.3
Flammability			UL (thickness)	Self Extinguishing
<b>Mechanical Properties</b>				
Tensile Strength @ 23°C, dry			N/mm <sup>2</sup>	69-96
Tensile Modulus @ 23°C, dry			N/mm <sup>2</sup>	3130-4160
Flexural Modulus			N/mm <sup>2</sup>	2758-3448
Shear Strength			N/mm <sup>2</sup>	66-72
Elongation @ 23°C, dry			%	5-150
Flexural Strength @ 23°C, dry			N/mm <sup>2</sup>	110-130
Hardness Shore D @ 23°C, dry				80-90
Hardness Rockwell @ 23°C, dry				R110-125
Deformation under load				
- 14 N/mm <sup>2</sup> for 24 hours at 50°C			%	0.5-2.5
- 8 N/mm <sup>2</sup> for 24 hours at 150°C			%	
- 14 N/mm <sup>2</sup> for 24 hours at 150°C			%	
Impact Strength			Izod J/m	90
<b>Electrical Properties</b>				
Volume Resistivity			Ohm.cm	>10 <sup>13</sup>
Dielectric Strength			kV/mm	>12
Relative Permittivity 50Hz-10kHz				3.5-4.2
<b>Resistance Properties</b>				
Outside Applications - UV Resistance				C
Acids, Weak pH > 3				B
Acids, Strong pH < 3				D
Alkalis, Strong pH > 11				C
Chlorinated Hydrocarbons				A
Hot Water				C