

Doriflon Specification Sheet

Material Name	Nylon 66			
Description	Polyamide 66			
Remarks and Applications	General purpose engineering plastic			
Typical Properties				
Property	Conditions	ISO	Units	Value
General Properties				
Specific Gravity			g/cm ³	1.14-1.15
Water Absorption @ 23°C				
- in water 24 hours			%	0.6-1.5
- saturation in water			%	7-9
Colour				White
Thermal Properties				
Melting Point			°C	260
Minimum Working Temperature			°C	-40
Continuous Working Temperature			°C	95
Thermal Conductivity			W/K.m	.24
Linear Thermal Expansion Coefficient			K ⁻¹ x10 ⁻⁵	
Flammability			UL (thickness)	Self Extinguishing
Mechanical Properties				
Tensile Strength @ 23°C, dry			N/mm ²	62-83
Tensile Modulus @ 23°C, dry			N/mm ²	1733-2744
Flexural Modulus			N/mm ²	1207-2827
Shear Strength			N/mm ²	66
Elongation @ 23°C, dry			%	20-200
Flexural Strength @ 23°C, dry			N/mm ²	86.97
Hardness Shore D @ 23°C, dry				80-85
Hardness Rockwell @ 23°C, dry				112-120
Deformation under load				
- 14 N/mm ² for 24 hours at 50°C			%	1.0-3.0
- 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	110
Electrical Properties				
Volume Resistivity			Ohm.cm	>10 ¹³
Dielectric Strength			kV/mm	>12
Relative Permittivity 50Hz-10kHz				3.4-4.1
Resistance Properties				
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