

Dr. Dietrich Müller GmbH, Zeppelinring 18, D-26197 Ahlhorn

Tecfilm® PA TC 00191

Also see General Information on Tecfilm® PA TC 00190

General Description: A semi-crystalline yellowish thermoplastic, which is often brick-red coloured. The crystallinity is higher and has better chemical resistance than Tecfilm® PA 00 190 TC or TC Tecfilm® PA 00192 - The water absorption ability is comparable, although the resulting range of existing dimensional changes are small. Compared to other (aliphatic) Nylons it retains its properties much better at higher temperatures - allegedly because of "highly symmetric" polymer chain and its relatively high concentration of amide groups (four methylene groups in both the acid than in the amine part.)

Application: Similar to other nylons - engineering, electrical and electronic components, particularly where these are (continuous) exposed to high temperatures.

Physical Properties		Mechanical Properties	
Density	1.18 g cm ⁻³	Elongation at Break	3.1 – 3.3 GPa
Flammability	V2 at 0.8mm	Hardness - Rockwell	M92
Minimum Oxygen Content	24%	Izod Impact Strength	80 J m ⁻¹
Radiation Resistance	Satisfactory	Poisson Ratio	0.48
Water Absorption - Balance Ratio	3.7 %	Tensile Strength	55 - 100 MPa
Water Absorption - over 24 Hours	1.3%		
Electrical Properties		Thermal Properties	
Dissipation Factor at 1 kHz	0.35	Heat Flexure Temperature – 0.45 MPa	220 °C
Dielectric strength	20kV mm ⁻¹	Heat Flexure Temperature – 1.8 MPa	160 °C
Dielectric Constant at 1 MHz	3.8-4.3	Linear Coefficient of Thermal Expansion	83 - 90 x10 ⁻⁶ K ⁻¹
Specific Surface Resistance	10 ¹² - 10 ¹⁴ Ohm/sq	Max. Continuous Operating Temperature	100-200 °C
Specific Volume Resistance	10 ¹³ - 10 ¹⁵ Ohmcm	Min. Continuous Operating Temperature	-40 °C
		Thermal Conductivity at 23 ° C	0.30 W m ⁻¹ K ⁻¹

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 St.-Nr.: 68/207/07677 | Zertifiziert nach DIN EN ISO 9001:2008 | UL anerkannter Repacker E341377

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Tecfilm[®] PA TC 00191

Trademark Information: Tecfilm[®] is a registered trademark of the company Dr. Dietrich Müller GmbH, Germany.

Please note:

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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