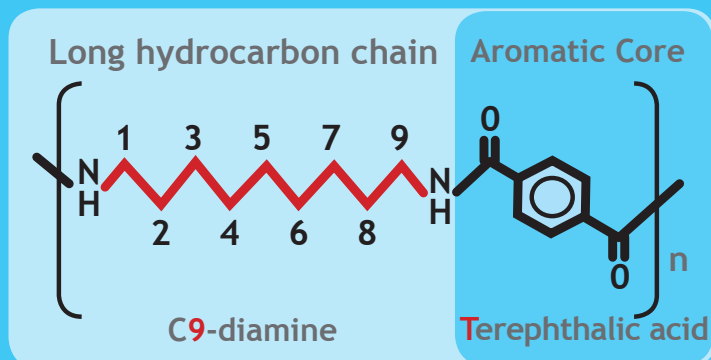


What is PA9T?

PA9T is a new semi-aromatic polyamide engineering plastics composed of C9 monomer, which is commercialized by Kuraray for the first time.



Thanks to excellent performance including high heat resistance, high chemical resistance, low water absorption, and good dimensional precision. **PA9T** is finding its use in a growing range of applications including electrical and electronics(E&E) components as well as automotive parts.

Typical fiber properties

■ High heat resistance (High Tg)

■ High Chemical resistance

■ Low water absorption

Basic physical properties

		PA9T	Ny6	Ny66	PET	PPS
Melting Point (Tm)	°C	265-300	220	260	265	285
Glass transition Temperature (Tg)	°C	120	50	50	70	90
Density	g/cm ³	1.14	1.14	1.14	1.38	1.34
Water absorption	% (20 °C x 65 RH)	1.8	4.5	4.5	0.4	0.2
Tensile Strength	cN/dtex	4.2	5.6	5.7	4.0	4.9
Tensile Modulus	cN/dtex	49	35	40	79	49
Dry Shrinkage	% (180 °C)	3	24	11	18	1

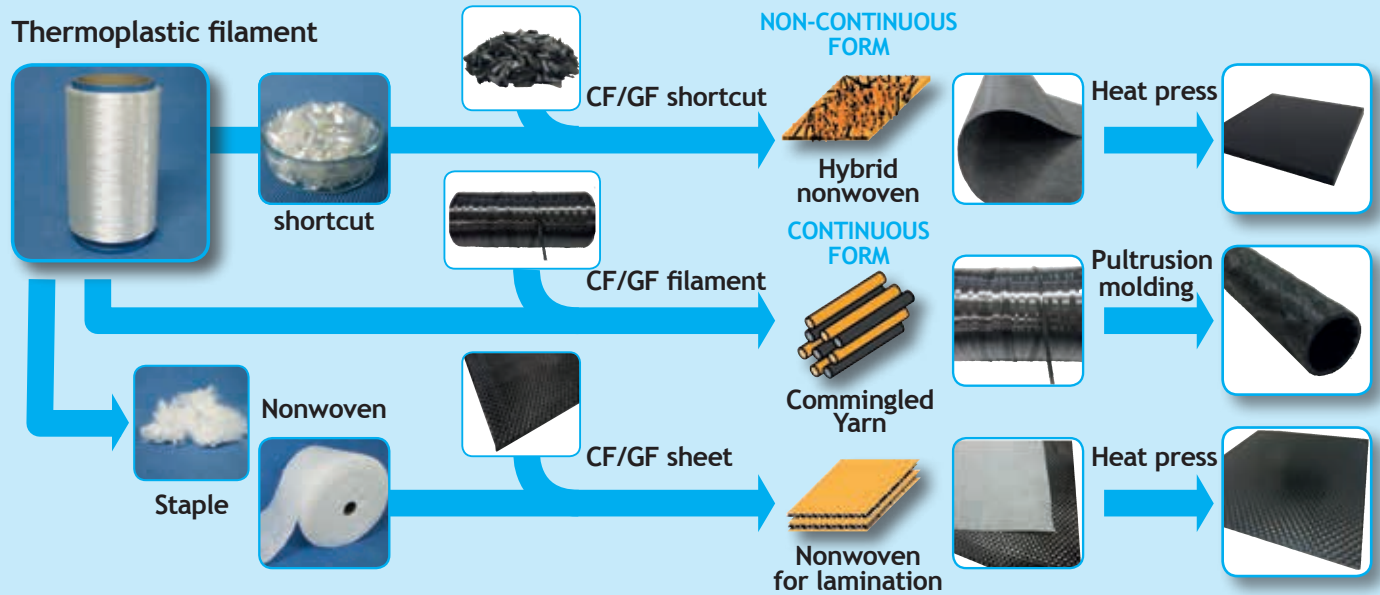
All data were measured by Kuraray's method. Above indicated values are not guaranteed figure, all specifications are subject to change without notice

Chemical resistance of PA9T fiber compared to other fibers

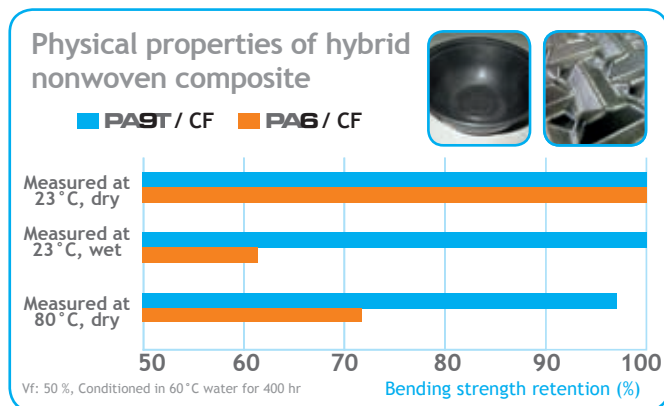
		Fiber Strength Retention (%)				
		PA9T	Ny6	Ny66	PET	PPS
10 % H ₂ SO ₄	70 °C x 100 hr	96	0	0	99	100
10 % NaOH	70 °C x 60 hr	100	100	100	0	100
10 % NaClO	70 °C x 1 hr	93	38	40	97	86
benzene	23 °C x 100 hr	97	100	100	99	84
gasoline	120 °C x 168 hr	95	-	70	-	87

All data were measured by Kuraray's method. Above indicated values are not guaranteed figure, all specifications are subject to change without notice

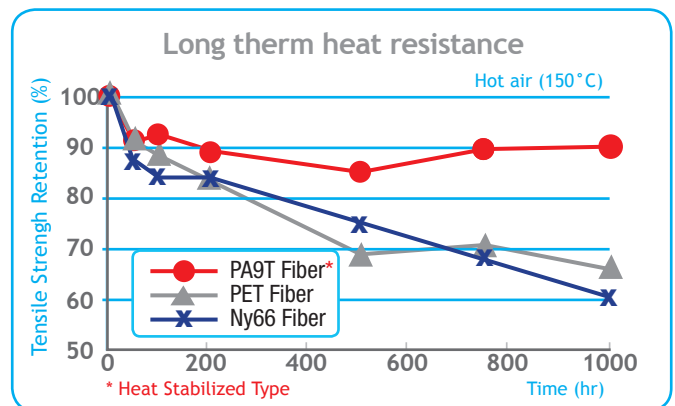
PA9T-Fiber for Thermoplastic Composite with Textile Composite Technologies



Thermal property of PA9T composite



Thermal property of PA9T fiber



Main Application Area



BU Industrial Fibers, Kuraray Europe GmbH,
 Philipp-Reis-Straße 4
 65795 Hattersheim am Main, Germany
 Tel.: +49 69 305 85 986 • Fax: +49 69 305 98 35860
 E-Mail: munenori.kumagai@kuraray.com
www.kuraray.eu

Fiber and textile Company, Kuraray Co., Ltd.
 Ote Center Building, 1-1-3, Otemachi, Chiyoda-ku,
 Tokyo 100-8115, Japan
 Tel.: +81 3-6701-1361 • Fax: +81 3-6701-1376
 E-Mail: Shohei.Tsunofuri@kuraray.com
www.kuraray.co.jp