

AF915 PA 612C Copolymer

AF915 is a copolymer of nylon 6 and nylon 12 produced by anionic polymerisation of caprolactam and laurilactam. The copolymer makeup gives the product a greater degree of material resilience, reduced moisture absorption and greatly improved impact resistance

Typical Physical properties

Property	Test Method	Value
Specific Gravity	ISO 1183 / ASTM D-792	1.15 g/cm ³
Tensile Strength	ISO 527 / ASTM D-638	75 MPa (10878 PSI)
Elongation	ISO 527 / ASTM D-638	>30%
E modulus	ASTM D-638	3700 MPa (536641 PSI)
Hardness Shore D		80
Flexural Strength	ISO R178	95 MPa (13779 PSI)
Modulus of Elasticity	ISO 527	3700 MPa (536641 PSI)
Compressive Strength	ISO 604:2002	90 MPa (13053 PSI)
Coefficient of Friction		0.3
Coefficient of Thermal Expansion		8.5°C x 10 ⁻⁵
Maximum Intermittent use Temperature		160°C (320°F)
Maximum Continuous use Temperature		100°C (212°F)
Melting temperature	ASTM D-3418	215°C (420°F)
Minimum Intermittent use Temperature		-100°C (-148°F)
Minimum Continuous use Temperature		-40°C (-40°F)
Water Absorption (24Hrs)	ISO 62 / ASTM D-570	0.2%
Water Absorption (Saturation)	ISO 62	5.0%
Colour		YELLOW/BLUE

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All information is based on typical test results performed under specific conditions and limited sample size. This does not represent a legally binding guarantee of certain properties or the suitability for specific applications. All information is provided in good faith at time of print.

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Solutions and components in Fluoropolymer Plastics

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