

## Adamas Adalon® 103 PTFE, 10% Carbon Filled

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Carbon Fiber Filled

### Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Adamas-Adalon-103-PTFE-10-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Adamas-Adalon-103-PTFE-10-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.15 - 2.16 g/cc	2.15 - 2.16 g/cc	ASTM D792
Deformation	2.0 - 4.8 %	2.0 - 4.8 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	8.9 - 10.6 %	8.9 - 10.6 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 64	62 - 64	ASTM D2240
Tensile Strength at Break	>= 20.0 MPa	>= 2900 psi	ASTM D4894
Elongation at Break	>= 200 %	>= 200 %	ASTM D4894
Compressive Strength	>= 10.0 MPa @Temperature 23.0 °C, Time 86400 sec	>= 1450 psi @Temperature 73.4 °F, Time 24.0 hour	@ 1% deformation, 140 Kg/cm <sup>2</sup> ; ASTM D621
Coefficient of Friction, Dynamic	0.10 - 0.11	0.10 - 0.11	ASTM D1894
Coefficient of Friction, Static	0.14 - 0.16	0.14 - 0.16	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C 177
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	260 °C	500 °F	DSC
Minimum Service Temperature, Air	-80.0 °C	-112 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 ohm-cm	1.00e+7 ohm-cm	ASTM D257
Surface Resistance	1.00e+6 ohm	1.00e+6 ohm	ASTM D257

## **Contact Songhan Plastic Technology Co.,Ltd.**

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