

## Adamas Adalon® 113 PTFE, 23/2% Carbon/Graphite 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-113-PTFE-232-CarbonGraphite-Filled.php](http://www.lookpolymers.com/polymer_Adamas-Adalon-113-PTFE-232-CarbonGraphite-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.03 - 2.07 g/cc	2.03 - 2.07 g/cc	ASTM D792
Deformation	2.0 - 3.9 %	2.0 - 3.9 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	5.0 - 6.9 %	5.0 - 6.9 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58 - 62	58 - 62	ASTM D2240
Ball Indentation Hardness	52.0 - 56.0 MPa	7540 - 8120 psi	ISO 2032-N961
Tensile Strength at Break	>= 19.0 MPa	>= 2760 psi	ASTM D4745-11
Elongation at Break	>= 100 %	>= 100 %	ASTM D4745-11
Compressive Strength	>= 6.86 MPa @Temperature 23.0 °C, Time 86400 sec	>= 996 psi @Temperature 73.4 °F, Time 24.0 hour	@ 1% deformation, 140 Kg/cm <sup>2</sup> ; ASTM D621
Coefficient of Friction, Dynamic	0.12 - 0.14	0.12 - 0.14	ASTM D1894
Coefficient of Friction, Static	0.14 - 0.16	0.14 - 0.16	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.340 W/m-K	2.36 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	-140 °C	-220 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257

Electrical Properties

1000 ohm  
Metric

1000 ohm  
English

ASTM D257  
Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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