

## Adamas Adalon® 305 PTFE, 15% Graphite

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

### Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Adamas-Adalon-305-PTFE-15-Graphite.php](http://www.lookpolymers.com/polymer_Adamas-Adalon-305-PTFE-15-Graphite.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.14 - 2.16 g/cc	2.14 - 2.16 g/cc	ASTM D792
Deformation	5.0 - 5.5 %	5.0 - 5.5 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	9.4 - 10.8 %	9.4 - 10.8 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52 - 56	52 - 56	ASTM D2240
Ball Indentation Hardness	58.0 - 62.0 MPa	8410 - 8990 psi	ISO 2032-N132
Tensile Strength at Break	>= 18.0 MPa	>= 2610 psi	ASTM D4894
Elongation at Break	>= 200 %	>= 200 %	ASTM D4894
Compressive Strength	>= 12.0 MPa	>= 1740 psi	@ 1% deformation, 140 Kg/cm <sup>2</sup> ; ASTM D621
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Coefficient of Friction, Dynamic	0.090 - 0.11	0.090 - 0.11	ASTM D1894
Coefficient of Friction, Static	0.11 - 0.14	0.11 - 0.14	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+9 ohm-cm	1.00e+9 ohm-cm	ASTM D257

Electrical Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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