

## Adamas Adalon® 991 PTFE

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-991-PTFE.php](http://www.lookpolymers.com/polymer_Adamas-Adalon-991-PTFE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.14 - 2.18 g/cc	2.14 - 2.18 g/cc	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570
Deformation	10 - 12.9 %	10 - 12.9 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52 - 56	52 - 56	ASTM D2240
Ball Indentation Hardness	22.0 - 26.0 MPa	3190 - 3770 psi	ISO 2032-N132
Tensile Strength at Break	>= 20.0 MPa	>= 2900 psi	ASTM D4745-11
Elongation at Break	>= 200 %	>= 200 %	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	0.060 - 0.080	0.060 - 0.080	ASTM D1894
Coefficient of Friction, Static	0.080 - 0.11	0.080 - 0.11	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.240 W/m-K	1.67 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+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257

Surface Resistance Electrical Properties	1.00e+16 ohm Metric	1.00e+16 ohm English	ASTM D257 Comments
Dielectric Constant	2.1 @Frequency 60.0 - 2.00e+6 Hz	2.1 @Frequency 60.0 - 2.00e+6 Hz	ASTM D150
Dielectric Strength	20.0 - 70.0 kV/mm	508 - 1780 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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