

## Adamas Hardor® 991 PE-UHMW

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

### Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Adamas-Hardor-991-PE-UHMW.php](http://www.lookpolymers.com/polymer_Adamas-Hardor-991-PE-UHMW.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 - 0.930 g/cc	0.920 - 0.930 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58 - 60	58 - 60	ASTM D2240
Ball Indentation Hardness	34.0 - 36.0 MPa	4930 - 5220 psi	ISO 2039-1
Tensile Strength at Break	>= 40.0 MPa	>= 5800 psi	ASTM D4894
Elongation at Break	>= 350 %	>= 350 %	ASTM D4894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.410 W/m-K	2.85 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C 177
Melting Point	193 °C	379 °F	DSC
Maximum Service Temperature, Air	110 °C	230 °F	DSC
Minimum Service Temperature, Air	-180 °C	-292 °F	DSC
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	ASTM D257
Dielectric Strength	45.0 kV/mm	1140 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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