

Technical Data Sheet

Matrox[®] AST UV-stabilized - ASTM

PE-UHMW / PE 1000

Typical characteristics

- Low surface energy
- Good wear properties
- UV-resistant

Typical industries

- Bulk Material Handling

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0.93
Water Absorption	ASTM D570	%	0.01
Carbon Black Content	ISO6964	%	n/a
Mechanical properties			
Tensile Strength at Yield	ASTM D638	psi	2900
Hardness	ASTM D2240	Shore D	63
Tensile Modulus	ASTM D638	psi	84000
Tensile Elongation	ASTM D638	%	>250
Thermal properties			
Melting Point		°F	275
Maximum Service Temperature, Air		°F	180
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	174
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁴	1.11
Electrical properties			
Dielectric constant	ASTM D150	1MHz	2.3
Dielectric strength	ASTM D149	kV / mm	45
Surface resistivity	ASTM D257	Ω/cm	>10 ¹²

ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 04/06/2026 • Release: 20/09/2023
 PIM-ID: 717980 • PIM-Code: 44-11-14.126.15-6
 Company-IDs: 23070

Page 1 / 1 (Dates in DD/MM/YYYY)

