

Polystone® M High Temp Data Sheet

Polystone® M High Temp, Ultra High Weight Polyethylene (UHMW-PE) is produced by compression molding.

Property	Units	ASTM Test	Reprocessed
Density	gm/cm ³	D792	0.935
Tensile strength at yield 73°F	psi	D638	>3,100
Elongation 73°F	%	D638	>350
Coefficient of friction 73°F on steel	-	-	Static 0.17-0.2 Dynamic 0.1 - 0.2
IZOD impact strength 73°F	KJ/m ²	D4020-96	18 - 30
Hardness 73°F	-	D785	60 - 63
Melting point	°F	D789	266°F - 275°F
VICAT Softening Point	°F	D1525	176
Coefficient of linear thermal expansion	°F	D696	1.1 x 10 ⁻⁴
Thermal Conductivity	BTU inch FT ² Hr °F	D4351	2.84

Data represents typical values of virgin natural UHMW and should not be used as a specification.

Polystone® M High Temp is FDA compliant for Food contact under 21CFR177.1520 and 21CFR178.2010

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