



Technical Data Sheet

Harkness Industries MP 175

Polyurethane Composition

MP 175 is a high performance polyether based urethane designed to give elastomeric performance in the hardness range of engineering plastics. Exceptionally high tensile and tear strength coupled with outstanding impact strength make MP 175 an excellent choice in a variety of applications including bearing pads, material handling equipment, rolls, wheels, hammer heads, and many more.

Physical Properties

Shore D Hardness	75 +/- 5
100% Modulus, psi (Mpa)	5500 (38.0)
Tensile, psi (Mpa)	7500 (51.8)
Elongation, %	225%
Tear Strength, Split (ASTM D-470) pli, (kN/m)	110 (19.3)
Tear Strength, Die C (ASTM D-624) pli, (kN/m)	850 (149)
Bashore Rebound, % (ASTM D-2632)	60
Liner Coefficient of thermal expansion	176.1
at 77°F (25°C) $\mu\text{M}/\text{M}/^\circ\text{C}$	
Brittleness, °F (°C), (ASTM D-1044).....	- 85 (-65)
Abrasion Resistance, NBS Index	465
Specific Gravity	1.20