



PRODUCT CAPABILITIES:

STOCK SHAPES

- Rod : 15mm - 300mm
- Sheet : 6mm - 100mm

ADVANTAGES:

- Long-wearing
- High Impact Strength
- Light In Weight
- Self-lubricating
- Abrasion And Corrosion Resistant

PRODUCT COLORS:

- Natural
- Black

APPLICATIONS INCLUDE:

- Dock Bumpers
- Protective Linings
- Conveyor Parts
- Bottling Wheels
- Bushings And Bearings
- Machined Parts
- Wear Strips
- Many Other

MITSUBISHI CHEMICAL ADVANCED MATERIALS

GENERAL PROPERTIES	ASTM or UL Test	HDPE Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	ISO 1183	0.96
Water Absorption, 24 hrs (%)	ISO 62	<0.1
MECHANICAL		
Tensile Stress (MPa)	ISO 527	28
Tensile Strain at Break (%)	ISO 527	> 50
Flexural Strength (MPa)	ISO 178	27
Flexural Modulus (MPa)	ISO 178	-
Compressive Stress at 1/2/5% Strain (MPa)	ISO 604	12/18.5/26.5
Hardness, Shore D	ISO 868	62
Coefficient of Friction (Dynamic)	ISO 7148-2	0.15 - 0.30
THERMAL		
Coef. of Thermal Expansion(m/[m.k])	-	150 X 10 ⁻⁶
Heat Deflection Temp (*F / °C) @ 1.8 MPa	ISO 75	111 / 44
Flammability Rating	UL94	HB
ELECTRICAL		
Surface Resistivity (ohms/sq)	ANSI / ESD STM 11.11	> 10 ¹²
Volume Resistivity (ohm-cm)	IEC 60093	> 10 ¹⁴
Electric Strength (kV/mm)	IEC 60243-1	45

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.