

Arlon® 1286 Sealing Solutions

Compound No./Material Name:	Material Description:	Manufacturing Method:	Color:
Arlon® 1286	PEEK, Carbon-Filled	Injection Molded	Black

Description (ASTM Standard)	Typical
Physical & Mechanical Properties	
Specific Gravity (D792)	1.45
Hardness, Shore D (D2240)	93
Hardness, Rockwell M (D785)	109
Tensile Break Strength, psi [MPa] (D638)	35,500 [244.8]
Tensile 0.5% Secant Modulus, psi [MPa] (D638)	3,900,000 [26,889.6]
Elongation, % (D638)	1.4
Flexural Strength, psi [MPa] (D790)	54,000 [372.3]
Flexural 0.5% Secant Modulus, psi [MPa] (D790)	3,500,000 [24,131.7]
Heat Deflection Temperature @ 264 psi [1.82 MPa], °F [°C] (D648)	>600 [>316]
Compressive Strength @ Break, psi [MPa] (D695)	34,000 [234.4]
Coefficient of Dynamic Friction, PV=12,600 psi-ft/min (G77)	0.14
Wear Factor, Modified, 10 ⁻¹⁰ in. ³ -min/(lb-ft-hr) (G77)	120
Coefficient of Thermal Expansion < 300°F [149°C], 10 ⁻⁶ in./(in°F) [10 ⁻⁶ cm/cm°C] (D696)	5 [9]
Coefficient of Thermal Expansion > 300°F [149°C], 10 ⁻⁶ in./(in°F) [10 ⁻⁶ cm/cm°C] (D696)	12 [21.6]
Water Absorption, 24 Hours, % (D570)	0.08

Note: Reference GT Stock/Solid Code: 189.