Arlon® 1555
Bearing Grade Polyketone

Availability

Arlon® 1555 is available in basic shapes, custom molding, and fabricated components.

Thermoplastic Composite

Arlon® 1555 is a lubricated and carbon-filled version of Arlon® 1000. Compounding these thermoplastics results in a high HDT, improved tensile and flexural properties at elevated temperatures, and a reduced coefficient of thermal expansion.

The reduced coefficient of friction and improved wear properties demonstrate improved tribological properties. Arlon® 1555 is most often used in nonlubricated or marginally lubricated bearing applications or wear surfaces.

Typical Properties	
Physical Properties (ASTM Standard)	**Typical**
Color	Black
Specific Gravity (D792)	1.46
Hardness, Shore D, Points (D2240)	87
Mechanical (ASTM Standard)	
Compressive Strength, psi (MPa) (D695)	24,600 (170)
Elongation @ Break, % (D638)	2.2
Flexural Modulus, ksi (MPa) (D790)	1,400 (9,650)
Flexural Strength, psi (MPa) (D790)	33,000 (228)
Tensile Modulus, ksi (MPa) (D638)	1,650 (11,400)
Tensile Strength @ Break, psi (MPa) (D638)	21,200 (146)
Water Absorption 24 Hours 73°F (23°C), %	0.10

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