

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