



# TYPICAL PROPERTIES

Reference Document No. GTS-0012S

Compound No./Material Name:	Material Description:	Manufacturing Method:
ARLON® 1260	Polyketone, Carbon Filled	Injection Molded

DESCRIPTION (ASTM Standards)	TYPICAL
<b>Physical &amp; Mechanical Properties</b>	
Color	Black
Specific Gravity (D792)	1.41
Hardness, Shore D, Points (D2240)	92
Hardness, Rockwell M, Points (D785)	108
Tensile Break Strength, psi [MPa] (D638)	33,400 [230.3]
Tensile 0.5% Secant Modulus, psi [MPa] (D638)	3,150,000 [21,718.5]
Elongation, % (D638)	1.9
Flexural Strength, psi [MPa] (D790)	50,300 [346.8]
Flexural 0.5% Secant Modulus, psi [MPa] (D790)	2,750,000 [18,960.6]
Shear Strength, Axial, psi [MPa] (D732)	17,400 [120.0]
Shear Strength, Transverse, psi [MPa] (D732)	13,900 [95.8]
Compressive Strength @ Break, psi [MPa] (D695)	38,000 [262.0]
Deformation Under Load, % (D621)	0.06
Heat Deflection Temperature @ 264 psi, °F [°C] (D648)	> 600 [> 316]
Coefficient of Dynamic Friction, PV=12,600 psi-ft./min. (G77)	0.18
Wear Factor, Modified ASTM G77, 0 <sup>10</sup> in. <sup>3</sup> -min./ (lb.-ft.-hr.) (G77)	230
Coefficient of Thermal Expansion, < 300°F (149°C) 10 <sup>6</sup> in./ (in°F) [10 <sup>6</sup> cm/(cm°C)] (D696)	5 [9]
Coefficient of Thermal Expansion, > 300°F (149°C) 10 <sup>6</sup> in./ (in°F) [10 <sup>6</sup> cm/(cm°C)] (D696)	10 [18]

**Note**

Properties of Arlon 1260 are anisotropic. The published properties, unless otherwise noted, are measured in the axial flow direction of molded test specimens. Strength and stiffness, therefore, are at a maximum while elongation and thermal coefficient of expansion are at a minimum.

**Contact Us**

Greene, Tweed      Tel: +1.215.256.9521  
 Kulpville, PA, USA      Fax: +1.215.256.0189  
 www.gtweed.com

*Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.*

typical properties / arlon® 1260

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