

# Arlon® 1555

Polyetheretherketone  
Greene, Tweed & Co.

Message:

Arlon® 1555 is a Polyetheretherketone (PEEK) product filled with carbon fiber and graphite fiber. It can be processed by injection molding and is available in Europe or North America. Primary characteristic: lubricated.

General Information			
Filler / Reinforcement	Carbon Fiber		
	Graphite Fiber		
Additive	PTFE Lubricant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	98		ASTM D785
Durometer Hardness (Shore D)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 0.5% Secant	11400	MPa	ASTM D638
Tensile Strength (Break)	146	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus - 0.5% Secant	9650	MPa	ASTM D790
Flexural Strength	228	MPa	ASTM D790
Compressive Strength <sup>1</sup>	170	MPa	ASTM D695
Shear Strength			ASTM D732
-- <sup>2</sup>	68.9	MPa	
-- <sup>3</sup>	89.6	MPa	
Coefficient of Friction <sup>4</sup> (vs. Itself - Dynamic)	0.17		ASTM D1894
Deformation Under Load	0.100	%	ASTM D621
Wear Factor	130	10 <sup>-8</sup> mm <sup>3</sup> /N · m	ASTM G77
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 316	°C	ASTM D648
CLTE - Flow			ASTM D696
< 149°C	1.4E-5	cm/cm/°C	
> 149°C	3.1E-5	cm/cm/°C	
NOTE			

1.	at Break
2.	Transverse
3.	Axial
4.	PV = 12600 psi-ft/min

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#### Recommended distributors for this material

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