Arlon® 1287 LI

Polyetheretherketone

Greene, Tweed & Co.

Message:

Greene, Tweed offers precision plastic components for a variety of demanding semiconductor applications. These components are made from a full range of high-performance plastic materials including Arlon® 1287 LI, which is ideal for applications requiring exceptionally high physical properties, wear resistance and chemical compatibility.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Good Impact Resistance Good Wear Resistance		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.47	g/cm³	ASTM D792
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	93		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	242	MPa	ASTM D638
Tensile Elongation (Break)	1.1	%	ASTM D638
Flexural Modulus - 0.5% Secant	27900	MPa	ASTM D790
Flexural Strength	345	MPa	ASTM D790
Coefficient of Friction [1] (vs. Itself - Dynamic)	0.14		ASTM G77
Wear Factor	240	10^-8 mm³/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	9.0E-6	cm/cm/°C	
> 149°C	2.2E-5	cm/cm/°C	
NOTE			
1.	PV = 12600 psi-ft/min		

Recommended distributors for this material

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