

Arlon® 1260

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® 1260, which is ideal for applications requiring high impact, wear and chemical resistance.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Good Chemical Resistance		
	Good Wear Resistance		
	High Impact Resistance		
Uses	Gaskets		
	Seals		
	Semiconductor Molding Compounds		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	108		ASTM D785
Durometer Hardness (Shore D)	92		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 0.5% Secant	21700	MPa	ASTM D638
Tensile Strength (Break)	230	MPa	ASTM D638
Tensile Elongation (Break)	1.9	%	ASTM D638
Flexural Modulus - 0.5% Secant	19000	MPa	ASTM D790
Flexural Strength	347	MPa	ASTM D790
Compressive Strength ¹	262	MPa	ASTM D695
Shear Strength			ASTM D732
23°C ²	95.8	MPa	
23°C ³	120	MPa	
Coefficient of Friction ⁴ (vs. Itself - Dynamic)	0.18		ASTM D1894
Deformation Under Load	0.0600	%	ASTM D621
Wear Factor	460	10 ⁻⁸ mm ³ /N·m	ASTM D3702
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	1.8E-5	cm/cm/°C	

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

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