

Arlon® 1330

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® 1330. Ideal for applications requiring exceptional wear resistance and chemical compatibility, Arlon 1330 provides good dimensional stability without the addition of carbon fibers.

General Information			
Additive	PTFE Lubricant		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Wear Resistance		
	Low Extractables		
	Lubricated		
Uses	Semiconductor Molding Compounds		
Appearance	Tan		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	86.9	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus - 0.5% Secant	3690	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Compressive Strength ¹	107	MPa	ASTM D695
Shear Strength ²			ASTM D732
23°C	77.6	MPa	
232°C	19.8	MPa	
Coefficient of Friction ³	0.15		ASTM D1894
Wear Factor	40	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	57	J/m	ASTM D256
Unnotched Izod Impact	1000	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	166	°C	ASTM D648
Melting Temperature	343	°C	
CLTE - Flow			ASTM D696
< 149°C	4.1E-5	cm/cm/°C	
> 149°C	1.5E-4	cm/cm/°C	

NOTE

1. Break
2. Axial
3. PV=12,600 psi ft/min

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