

Arlon® 1263

Polyetheretherketone
Greene, Tweed & Co.

Message:

Arlon® 1263 is a Polyetheretherketone (PEEK) product filled with carbon fiber. It can be processed by injection molding and is available in Europe or North America. Typical application: Military Applications.

General Information			
Filler / Reinforcement	Carbon Fiber		
Agency Ratings	MIL P-46183 Type III, Class 2		
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
-- ²	95.8	MPa	
-- ³	120	MPa	
Coefficient of Friction ⁴ (vs. Itself - Dynamic)	0.18		ASTM G77
Deformation Under Load	0.0600	%	ASTM D621
Wear Factor	460	10 ⁻⁸ mm ³ /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	1.3E-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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