

Arlon® 2000

Polyetheretherketone
Greene, Tweed & Co.

Message:

Arlon® 2000 is a Polyetheretherketone (PEEK) product. It is available in Europe or North America. Primary characteristic: heat resistant.

General Information			
Features	High Heat Resistance		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	117	MPa	
Yield, 24°C	121	MPa	
Yield, 93°C	89.6	MPa	
Yield, 149°C	57.9	MPa	
Yield, 177°C	41.4	MPa	
Yield, 204°C	34.5	MPa	
Yield, 260°C	24.8	MPa	
Yield, 316°C	11.7	MPa	
Break	96.5	MPa	
Break, 24°C	88.3	MPa	
Break, 93°C	64.8	MPa	
Break, 149°C	49.6	MPa	
Break, 177°C	45.5	MPa	
Break, 204°C	37.2	MPa	
Break, 260°C	44.1	MPa	
Break, 316°C	30.3	MPa	
Tensile Elongation (Break)	14	%	ASTM D638
Flexural Modulus			ASTM D790
--	4480	MPa	
24°C	4560	MPa	
93°C	4230	MPa	
149°C	3630	MPa	
177°C	1120	MPa	

204°C	807	MPa
260°C	641	MPa
316°C	387	MPa
Flexural Strength		ASTM D790
5.0% Strain ¹	186	MPa
5.0% Strain,24°C	189	MPa
5.0% Strain,93°C	159	MPa
5.0% Strain,149°C	110	MPa
5.0% Strain,177°C	46.9	MPa
5.0% Strain,204°C	35.2	MPa
5.0% Strain,260°C	27.6	MPa
5.0% Strain,316°C	15.9	MPa
Shear Strength		ASTM D732
24°C ²	98.6	MPa
24°C ³	75.8	MPa
93°C ⁴	57.9	MPa
93°C ⁵	73.8	MPa
149°C ⁶	55.2	MPa
149°C ⁷	43.4	MPa
177°C ⁸	29.6	MPa
177°C ⁹	41.4	MPa
204°C ¹⁰	20.0	MPa
204°C ¹¹	33.1	MPa
260°C ¹²	14.5	MPa
260°C ¹³	26.2	MPa
316°C ¹⁴	21.4	MPa
316°C ¹⁵	6.89	MPa
NOTE		
1.	No Break	
2.	Max	
3.	Yield	
4.	Yield	
5.	Max	
6.	Max	
7.	Yield	
8.	Yield	
9.	Max	
10.	Yield	
11.	Max	
12.	Yield	
13.	Max	
14.	Max	

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