

Arlon® 2400

Polyetheretherketone
Greene, Tweed & Co.

Message:

Arlon® 2400 is a Polyetheretherketone (PEEK) product filled with glass fiber. It is available in Europe or North America. Primary characteristic: heat resistant.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	High Heat Resistance		
Appearance	Tan		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	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	11600	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	198	MPa	
Break	198	MPa	
Break, 38°C	193	MPa	
Break, 93°C	161	MPa	
Break, 149°C	117	MPa	
Break, 204°C	80.0	MPa	
Break, 260°C	66.2	MPa	
Break, 316°C	46.9	MPa	
Tensile Elongation (Break)	2.4	%	ASTM D638
Flexural Modulus			ASTM D790
--	11000	MPa	
38°C	10700	MPa	
93°C	10600	MPa	
149°C	8650	MPa	
204°C	4540	MPa	
260°C	3250	MPa	
316°C	2090	MPa	
Flexural Strength			ASTM D790
Break	274	MPa	
Break, 38°C	274	MPa	
Break, 93°C	241	MPa	

Break, 149°C	183	MPa
Break, 204°C	121	MPa
Break, 260°C	99.3	MPa
Break, 316°C	69.6	MPa
Compressive Strength ¹		ASTM D695
204°C	87.6	MPa
260°C	59.3	MPa
316°C	31.0	MPa
149°C	156	MPa
--	280	MPa
38°C	262	MPa
93°C	210	MPa
Shear Strength		ASTM D732
-- ²	89.6	MPa
-- ³	121	MPa
38°C ⁴	83.4	MPa
38°C ⁵	112	MPa
93°C ⁶	90.3	MPa
93°C ⁷	67.6	MPa
149°C ⁸	72.4	MPa
149°C ⁹	53.1	MPa
204°C ¹⁰	51.0	MPa
204°C ¹¹	33.8	MPa
260°C ¹²	29.0	MPa
260°C ¹³	44.1	MPa
316°C ¹⁴	24.1	MPa
316°C ¹⁵	40.0	MPa
Flexural Strain at Break		ASTM D790
--	2.7	%
38°C	2.8	%
93°C	2.6	%
149°C	3.1	%
204°C	4.2	%
260°C	4.7	%
316°C	4.6	%
NOTE		
1.	Max Load	
2.	Transverse	
3.	Axial	
4.	Transverse	
5.	Axial	
6.	Axial	

7.	Transverse
8.	Axial
9.	Transverse
10.	Axial
11.	Transverse
12.	Transverse
13.	Axial
14.	Transverse
15.	Axial

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