

XYCOMP® 5101

Polyetheretherketone
Greene, Tweed & Co.

Message:

XYCOMP® 5101 is a Polyetheretherketone (PEEK) product filled with carbon fiber. It is available in Europe or North America.

General Information		
Filler / Reinforcement	Carbon Fiber	
Appearance	Black	
Forms	Pellets	
Mechanical	Nominal Value	Unit
Tensile Modulus		
23°C ¹	10300	MPa
23°C	138000	MPa
82°C ²	9650	MPa
82°C ³	138000	MPa
Tensile Strength		
Break, 23°C ⁴	89.6	MPa
Break, 23°C	2070	MPa
Break, 82°C ⁵	82.7	MPa
Break, 82°C ⁶	2030	MPa
Tensile Elongation		
Break, 23°C ⁷	0.88	%
Break, 23°C	1.5	%
Break, 82°C ⁸	0.86	%
Flexural Modulus		
23°C	124000	MPa
82°C ⁹	124000	MPa
Flexural Strength		
23°C	2000	MPa
82°C ¹⁰	1860	MPa
Compressive Modulus ¹¹	124000	MPa
Compressive Strength		
82°C ¹²	1240	MPa
23°C	1360	MPa
Shear Modulus		
-- ¹³	5100	MPa
-- ¹⁴	5650	MPa
Shear Strength		
23°C	186	MPa

82°C ¹⁵	165	MPa
Poisson's Ratio ¹⁶	0.30	
Compressive Strength - Open Hole		
23°C	324	MPa
82°C ¹⁷	283	MPa
Tensile Strength - Open Hole (23°C)	386	MPa
Toughness Properties		
Compression after Impact ¹⁸	338	MPa
Mode I G1c : 23°C	1.70	kJ/m ²
Mode II G1c : 23°C ¹⁹	2.00	kJ/m ²

NOTE

- | | |
|-----|-------------------------------------|
| 1. | 90° |
| 2. | 90°, Wet |
| 3. | Wet |
| 4. | 90° |
| 5. | 90°, Wet |
| 6. | Wet |
| 7. | 90° |
| 8. | 90°, Wet |
| 9. | Wet |
| 10. | Wet |
| 11. | 180°F, Wet |
| 12. | Wet |
| 13. | 180°F, Wet |
| 14. | 73°F |
| 15. | Wet |
| 16. | 73°F |
| 17. | Wet |
| 18. | Strength after 1500 in-lb/in impact |
| 19. | Interlaminar Fracture |

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