



Oxford Performance Materials

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Provisional data sheet for  
**OXPEKK-IG205BS (IG with 5% BaSO<sub>4</sub>)**  
**OXPEKK-IG220BS (IG with 20% BaSO<sub>4</sub>)**

PROPERTY	TEST METHOD	OXPEKK-IG	OXPEKK-IG
		Crystalline	Crystalline
		5% BaSO <sub>4</sub>	20% BaSO <sub>4</sub>
Color		Beige	Beige
Linear Mold Shrinkage, in/in	ASTM D955	<0.014	<0.014
Specific Gravity, g/cm <sup>3</sup>	ASTM D792	1.46	1.92
<b>MECHANICAL</b>			
Tensile Strength (Yield), Kpsi	ASTM D638	17	16
Tensile Strength (Break), Kpsi	ASTM D638	13	13
Young's Modulus, Kpsi	ASTM D638	633	722
Elongation (Yield), %	ASTM D638	5	4
Elongation (Break), %	ASTM D638	8	7
Flexural Strength @5% strain, Kpsi	ASTM D790	28	34
Flexural Modulus, Kpsi	ASTM D790	669	760
Izod, Notched, ft-lb/in	ASTM D256	0.72	Not tested
Compressive Strength (20% offset yield), Kpsi	ASTM D695	21	Not tested
Compressive Strain (2% offset yield), %	ASTM D695	6	Not tested
Compressive Strength at Max @40% strain, Kpsi	ASTM D695	33	Not tested
Compressive Modulus, Kpsi	ASTM D695	941	Not tested
<b>THERMAL</b>			
Tm-Melting Point, °F (°C)	ASTM D3418	680 (360)	687 (364)
Tg-Glass Transition, °F (°C)	ASTM D3418	325 (163)	320 (160)

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