

**Product Texts****Zytel® 70K20HSL BK284 is a 20% Kevlar® Fiber Reinforced, Heat Stabilized, Polyamide 66**

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.9 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Ejection temperature	210	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	5300 / 3500	MPa	ISO 527
<sup>[C]</sup> Stress at break	110 / 85	MPa	ISO 527
<sup>[C]</sup> Strain at break	5 / 7.2	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	50 / 65	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	6 / 9	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	263 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	80 / *	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	222 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	255 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	240 / *	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	47 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	75 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Dissipation factor, 100Hz	140 / -	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	140 / -	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	1E9 / -	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	* / >1E15	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	23 / -	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	6.8 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	2.7 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1190 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets, Black

**Additives**

Lubricants, Release agent

**Special Characteristics**

Heat stabilized or stable to heat

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America