Zytel® XT70G50HSL BK044A

PA66-GF50 Celanese

Product Texts

Zytel® XT70G50HSL BK044A is a 50% glass fiber reinforced, heat stabilized polyamide 66 resin for injection molding.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.2 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.8 / ***	%	ISO 294-4, 2577
[C] Ejection temperature	**200**	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**17000 / 11500**	MPa	ISO 527
[C] Stress at break	**240 / 170**	MPa	ISO 527
[C] Strain at break	**2.6 / 5**	%	ISO 527
[C] Charpy impact strength, +23°C	**90 / 105**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**15 / 19**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**13 / -**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**259 / ***	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**70 / ***	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**245 / ***	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**19 / ***	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**65 / ***	E-6/K	ISO 11359-1/-2
[C] Burning rate, FMVSS, Thickness 1 mm	**22**	mm/min	ISO 3795 (FMVSS 302)

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Humidity absorption	**1.2 / ***	%	Sim. to ISO 62
[C] Density	**1590 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Viscosity number	**145 / ***	cm³/g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Special Characteristics
Heat stabilized or stable to heat

Delivery form
Pellets

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

Additives
Lubricants, Release agent