Zytel® EFE7374 BK416

PA6-I-GF40 Celanese

Product Texts

Common features of Zytel® nylon resin include mechanical and physical properties such as high mechanical strength, excellent balance of stiffness and toughness, good high temperature performance, good electrical and flammability properties, good abrasion and chemical resistance. In addition, Zytel® nylon resins are available in different modified and reinforced grades to create a wide range of products with tailored properties for specific processes and end-uses. Zytel® nylon resin, including most flame retardant grades, offer the ability to be coloured.

The good melt stability of Zytel® nylon resin normally enables the recycling of properly handled production waste. If recycling is not possible, we recommend, as the preferred option, incineration with energy recovery (-31kJ/g of base polymer) in appropriately equipped installations. For disposal, local regulations have to be observed.

Zytel® nylon resin typically is used in demanding applications in the automotive, furniture, domestic appliances, sporting goods and construction industry.

Zytel® EFE7374 is a 40% fiber reinforced, heat stabilized, lubricated, toughened polyamide 6 for injection molding. It has an improved impact resistance and excellent surface appearance and gloss.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.2 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.6 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**12000 / 7500**	MPa	ISO 527
[C] Stress at break	**190 / 130**	MPa	ISO 527
[C] Strain at break	**3.5 / 7.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**110 / 113**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**118 / 105**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**24 / 33**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**17 / 18**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**221 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**212 / ***	°C	ISO 75-1/-2
[C] Burning rate, FMVSS, Thickness 1 mm	**33**	mm/min	ISO 3795 (FMVSS 302)

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**5.4 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.7 / ***	%	Sim. to ISO 62
[C] Density	**1410 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Viscosity number	**110 / ***	cm³/g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Delivery form
Pellets, Black

Features
High Gloss

Additives
Lubricants

Regional Availability
Europe

Other text information

Injection molding