

## DuPont Performance Polymers Zytel® 73G30T BK261 Nylon 6 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

### Material Notes:

Zytel® 73G30T BK261 is a 30% glass fiber reinforced, toughened, black polyamide 6 resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-73G30T-BK261-Nylon-6-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-73G30T-BK261-Nylon-6-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	DAM; ISO 1183
Filler Content	30 %	30 %	DAM

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	170 MPa	24700 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	3.0 %	3.0 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.0 %	6.0 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	5.60 GPa	812 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.40 GPa	1360 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	5.70 GPa	827 ksi	50%RH; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 GPa	1310 ksi	DAM; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	50%RH; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	DAM; ISO 180/1A Comments
	17.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	8.09 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DAM; ISO 180/1A
	22.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	10.5 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	50%RH; ISO 180/1A
Izod Impact, Unnotched (ISO)	75.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	35.7 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	50%RH; ISO 180/1U
	75.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	35.7 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DAM; ISO 180/1U
Charpy Impact Unnotched	9.50 J/cm <sup>2</sup> @Temperature 23.0 °C	45.2 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DAM; ISO 179/1eU
	9.50 J/cm <sup>2</sup> @Temperature 23.0 °C	45.2 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	50%RH; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup> @Temperature -30.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	DAM; ISO 179/1eA
	1.00 J/cm <sup>2</sup> @Temperature -30.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	50%RH; ISO 179/1eA
	1.80 J/cm <sup>2</sup> @Temperature 23.0 °C	8.57 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DAM; ISO 179/1eA
	2.50 J/cm <sup>2</sup> @Temperature 23.0 °C	11.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 µm/m-°C @Temperature -40.0 - 23.0 °C	278 µin/in-°F @Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2
	500 µm/m-°C @Temperature 23.0 - 55.0 °C	278 µin/in-°F @Temperature 73.4 - 131 °F	DAM; ISO 11359-1/-2
	500 µm/m-°C @Temperature 55.0 - 160 °C	278 µin/in-°F @Temperature 131 - 320 °F	DAM; ISO 11359-1/-2
	83.0 µm/m-°C	46.1 µin/in-°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2
	107 µm/m-°C	59.4 µin/in-°F	
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	DAM; ISO 11359-1/-2
	110 µm/m-°C	61.1 µin/in-°F	
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	DAM; ISO 11359-1/-2
Melting Point	221 °C	430 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	206 °C	403 °F	DAM; ISO 75-1/-2
Flammability, UL94	HB	HB	DAM; UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	DAM
	270 °C	518 °F	DAM; Optimum
Mold Temperature	50.0 - 100 °C	122 - 212 °F	DAM
	80.0 °C	176 °F	DAM; optimum
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.20 %	<= 0.20 %	DAM

Descriptive Properties	Value	Comments
Additive	Impact Modifier	DAM
Appearance	Black Color	DAM
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Features	Chemical Resistance, Good	DAM
	Fatigue Resistant	DAM
	Fuel Resistant	DAM

Descriptive Properties	Grease Resistant Value	DAM Comments
	Impact Modified	DAM
	Impact Resistance, Good	DAM
	Oil Resistant	DAM
	Toughness, Good	DAM
Filler	Glass fiber reinforcement	DAM
Forms	Pellets	DAM
Generic	Nylon 6	DAM
Material Status	Current	DAM
Part Marking Code	>PA6-IGF30<	ISO 11469; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA6	DAM
Processing Method	Injection Molding	DAM
Product Category	Glass Reinforced Resins	DAM
	Toughened Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA6-IGF30	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Uses	Appliance Components	DAM
	Automotive Applications	DAM
	Electrical/Electronic Applications	DAM
	High Gloss Applications	DAM
	Industrial Applications	DAM

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China