

DuPont Performance Polymers Zytel® ST801AHS BK010 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Super Toughened Heat Stabilized Polyamide 66 Zytel ST801AHS BK010 is a Super Tough high performance black polyamide 66 resin. It offers outstanding molding performance in injection molding applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-ST801AHS-BK010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	DAM; ISO 1183
Moisture Absorption	2.00 %	2.00 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Water Absorption at Saturation	1.1 %	1.1 %	DAM; Immersion 24h; ASTM D570
Linear Mold Shrinkage, Flow	0.023 cm/cm	0.023 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	69	69	50%RH; ISO 2039-2
	107	107	DAM; ISO 2039-2
Tensile Strength, Yield	39.0 MPa	5660 psi	50%RH; ISO 527-1/-2
	47.0 MPa	6820 psi	DAM; ISO 527-1/-2
Elongation at Break	50 %	50 %	DAM; Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	50%RH; Nominal; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	DAM; ISO 527-1/-2
	39 %	39 %	50%RH; ISO 527-1/-2
Tensile Modulus	1.096 GPa	159.0 ksi	50%RH; ISO 527-1/-2
	1.80 GPa	261 ksi	DAM; ISO 527-1/-2
Flexural Modulus	0.832 GPa	121 ksi	50%RH; ISO 178
	1.90 GPa	276 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	71.0 kJ/m ²	33.8 ft-lb/in ²	DAM; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	DAM; ISO 180/1A
	19.0 kJ/m ²	9.04 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	NB	NB	DAM; ISO 180/1U
Charpy Impact Unnotched	NB	NB	DAM; ISO 179/1eU
Charpy Impact, Notched	7.50 J/cm ²	35.7 ft-lb/in ²	DAM; ISO 179/1eA
	10.5 J/cm ²	50.0 ft-lb/in ²	50%RH; ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.70 J/cm ²	8.09 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C	77.8 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	DAM; ISO 11359-1/-2
Melting Point	262 °C	504 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	147 °C	297 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	61.0 °C	142 °F	DAM; ISO 75-1/-2
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Descriptive Properties	Value	Comments
Part Marking Code	>PA66-HI<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	

Descriptive Properties	Value	Comments
Resin Identification	PA66-HI	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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