

Product Information

TORZEN™ T3000HSL BK20 PA66 Resin

Product Description

TORZEN™ T3000HSL BK20 is a highly toughened, heat stabilized, black PA66 resin with good impact strength, stiffness, weld line strength, surface appearance and flow.

Properties (dry)		Value	Units	Method
Physical	Specific Gravity	1.07	g/cm³	ISO 1183
	Mold Shrinkage, 2.0 mm, Normal	1.6 – 1.9	%	ISO 294-4
	Mold Shrinkage, 2.0 mm, Parallel	1.7 – 2.0	%	ISO 294-4
Mechanical	Tensile Strength at Yield	47	MPa	ISO 527
	Elongation at Yield	4.5	%	ISO 527
	Elongation at Break	50	MPa	ISO 527
	Flexural Modulus	1,900	MPa	ISO 178
	Notched Charpy at 23°C	82	kJ/m²	ISO 179
	Notched Charpy at -40°C	19	kJ/m²	ISO 179
	Unnotched Charpy at 23°C	NB	kJ/m²	ISO 179
	Unnotched Charpy at -30°C	NB	kJ/m²	ISO 179
	Notched Izod at -30°C	17	kJ/m²	ISO 180
Thermal	Melting Temperature, 10°C/min	262	°C	ISO 11357
	HDT at 0.45 MPa	148	°C	ISO 75
	HDT at 1.82 MPa	61	°C	ISO 75
	CLTE, 2.0 mm, Parallel, 23 - 55 °C	1.4	10 ⁻⁴ /°C	ISO 11359
	CLTE, 2.0 mm, Normal, 23 - 55 °C	1.2	10 ⁻⁴ /°C	ISO 11359

General Information

Material Status

Commercial: Active

Availability

North America, South America, Europe, Asia

Features

Impact modified, heat stabilized, high flow

RoHS

No intentional additives or ingredients used in $TORZEN^{TM}$ T3000HSL BK20 PA66 resin are among those in the European directive 2002/95/EC, (RoHS) as amended.

Process Guidelines for Molding

80 °C	
3 - 4 hours	
250 - 270 °C	
270 - 290 °C	
270 - 290 °C	
270 - 290 °C	
280 - 300 °C	
50 - 90 °C	
2 - 10 bar	
0.007 - 0.04 mm	
4 - 6 mm	
0.18 wt%	
0.08 wt%	
Low rpm	

^{*} Initial moisture below 0.25 wt%. Use dehumidified air.

INVISTA Engineering Polymers Business Additional Information: epinfo@INVISTA.com

Issue Date: February 2012

Product Data Sheet Disclaimer

This Product Data Sheet contains selected information about a specific INVISTA product, or group of products, and particular uses of the same. It relates only to the identified product and any identified uses, and is based on information available as of the date hereof. Additional information may be needed to evaluate other uses of the product, including use of the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. THIS PRODUCT DATA SHEET DOES NOT CONTAIN A COMPLETE STATEMENT OF, AND DOES NOT CONSTITUTE A REPRESENTATION, WARRANTY OR GUARANTY WITH REGARD TO, A PRODUCT'S CHARACTERISTICS, USES, QUALITY, MERCHANTABILITY, EFFICACY, HAZARDS OR HEALTH EFFECTS OF THE PRODUCT, WHETHER USED SINGULARLY OR IN COMBINATION WITH ANY OTHER PRODUCT, EXCEPT TO THE EXTENT REQUIRED BY THE RELEVANT LAW AND REGULATIONS. Purchasers and users of the product are responsible for determining that the product is suitable for the intended use and that their workers and the general public are advised of any risks resulting from such use. Nothing contained in this Product Data Sheet shall be construed to modify any of the commercial terms pursuant to which the product was sold by INVISTA including, but not limited to, terms and conditions addressing each party's respective rights and obligations with regard to warranties, remedies and indemnification.

If purchasers and users believe or have reason to believe that the Product Data Sheet or other information provided to them by INVISTA is inaccurate or in any way insufficient for any purpose, they should immediately notify INVISTA of the same, and of the basis for their belief (for example, studies, data, reports of incidents, etc.) so that INVISTA can determine whether modification or supplementation of the Product Data Sheet, or other measures, are appropriate. Failure of purchasers and users to timely provide such notice shall be deemed a waiver by purchasers and users of any and all claims, demands or causes of action, including causes of action based on an alleged failure to warn, for personal injury or damage to the environment or property arising from or attributable to the use of product.

This disclaimer shall be effective to the extent allowed by law. Should any provision be deemed to be ineffective or unenforceable, that provision shall be deemed severed from the disclaimer and the remaining provisions shall continue to have full force and effect.



^{**} Melt pressure