

Product Information

TORZEN™ T2000HSL BK20 PA66 Resin

Product Description

TORZEN™ T2000HSL BK20 is a toughened, heat stabilized, black, PA66 resin with good impact strength, stiffness, weld line strength, surface appearance and flow.

Properties (dry)		Value	Units	Method
<u> </u>	Specific Gravity	1.09	g/cm³	ISO 1183
Physical	Mold Shrinkage, 2.0 mm, Normal	1.6 – 1.9	%	ISO 294-4
4	Mold Shrinkage, 2.0 mm, Parallel	1.6 – 1.9	%	ISO 294-4
	Tensile Strength at Yield	60	MPa	ISO 527
	Elongation at Yield	4.0	%	ISO 527
	Elongation at Break	30	MPa	ISO 527
ical	Flexural Modulus	2400	MPa	ISO 178
Mechanical	Notched Charpy at 23°C	18	kJ/m²	ISO 179
Me	Notched Charpy at -40°C	12	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 23°C	17	kJ/m²	ISO 180
	Melting Temperature, 10°C/min	262	°C	ISO 11357
<u> </u>	HDT at 0.45 MPa	187	°C	ISO 75
Thermal	HDT at 1.82 MPa	65	°C	ISO 75
F	CLTE, 2.0 mm, Parallel, 23 - 55 °C	1.0	10 ⁻⁴ /°C	ISO 11359
	CLTE, 2.0 mm, Normal, 23 - 55 °C	1.0	10 ⁻⁴ /°C	ISO 11359

General Information

Material Status

Commercial: Active

Availability

North America, Europe, South America, Asia

Features

Impact modified, heat stabilized, high flow

RoHS

No intentional additives or ingredients used in TORZENTM T2000HSL BK20 PA66 resin are among those in the European directive 2002/95/EC, (RoHS) as amended.

Process Guidelines for Molding

	Drying Temperature	80 °C
	Drying Time*	3 - 4 hours
	Barrel Temperatures	
	Rear	250 - 270 °C
	Middle	270 - 290 °C
	Front	270 - 290 °C
	Nozzle	270 - 290 °C
	Processing Temperature (melt)	280 - 300 °C
	Mold Temperature	50 - 90 °C
	Back Pressure**	2 - 10 bar
ĺ	Vent Depth	0.007 - 0.04 mm
	Cushion (range)	4 - 6 mm
	Suggested Moisture (max)	0.18 wt%
	Suggested Moisture (min)	0.08 wt%
	Screw Speed	Low rpm

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

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^{**} Melt pressure