

TORZEN Marathon™ G3000XHL BK20

Polyamide 66

INVISTA Engineering Polymers

Message:

TORZEN Marathon™ G3000XHL BK20 is a 30% glass reinforced, heat stabilized, black, PA66 resin with a significantly improved balance of continuous heat and peak temperature property retention, along with higher flow and similar shrinkage compared to conventional PA66 resins.

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Heat Stabilizer
Features	Good Mold Release
	Heat Stabilized
	High Flow
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	0.95 to 1.1	%	
Flow : 2.00 mm	0.30 to 0.40	%	
Water Absorption			ISO 62
23°C, 24 hr	1.2	%	
Equilibrium, 23°C, 50% RH	1.8	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9800	MPa	ISO 527-2
Tensile Stress (Break)	195	MPa	ISO 527-2
Tensile Strain (Break)	3.1	%	ISO 527-2
Flexural Modulus	9100	MPa	ISO 178
Flexural Stress	270	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	9.0	kJ/m ²	
23°C	10	kJ/m ²	
Notched Izod Impact Strength (23°C)	10	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
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Heat Deflection Temperature			
0.45 MPa, Unannealed	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	248	°C	ISO 75-2/A
Melting Temperature	262	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.080 to 0.18	%	
Rear Temperature	250 to 270	°C	
Middle Temperature	270 to 290	°C	
Front Temperature	270 to 290	°C	
Nozzle Temperature	270 to 290	°C	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	50.0 to 90.0	°C	
Back Pressure	0.200 to 1.00	MPa	
Cushion	4.00 to 6.00	mm	
Vent Depth	7.0E-3 to 0.040	mm	
Screw Speed	Low rpm		

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