

DYNAMID DYN-RN66G20 HSL BK

Polyamide 66
Dynamic Polymer Solutions

Technical Data			
Product Description			
Polyamide 66, 20% glass fiber reinforced, heat stabilized & lubricated black Produced with recycled content			
General			
Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	
Recycled Content	• Yes		
Features	• Good Stiffness • Good Strength	• Heat Stabilized • Lubricated	
Appearance	• Black		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.28	1.28 g/cm³	ASTM D792
73°F (23°C)	1.28 g/cm³	1.28 g/cm³	ISO 1183
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
-- ³	912000 psi	6290 MPa	ASTM D638
--	912000 psi	6290 MPa	ISO 527-1/10
Tensile Strength			
Yield ⁴	19900 psi	137 MPa	ASTM D638
Yield	19600 psi	135 MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	4.0 %	4.0 %	ASTM D638
Break	2.6 %	2.6 %	ISO 527-2/50
Flexural Modulus ⁵			
--	800000 psi	5520 MPa	ASTM D790
--	893000 psi	6160 MPa	ISO 178
Flexural Strength ⁵			
--	28000 psi	193 MPa	ASTM D790
--	23900 psi	165 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.0 ft·lb/in²	4.2 kJ/m²	ISO 179
Notched Izod Impact			
73°F (23°C)	1.2 ft·lb/in	64 J/m	ASTM D256
73°F (23°C)	3.4 ft·lb/in²	7.2 kJ/m²	ISO 180

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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	493 °F	256 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	482 °F	250 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	471 °F	244 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	466 °F	241 °C	ISO 75-2/A
Peak Melting Temperature	504 °F	262 °C	ASTM D3418 ISO 3146

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	194 to 230 °F	90 to 110 °C
Drying Time	3.0 to 5.0 hr	3.0 to 5.0 hr
Suggested Max Moisture	< 0.15 %	< 0.15 %
Processing (Melt) Temp	527 to 572 °F	275 to 300 °C
Mold Temperature	131 to 176 °F	55 to 80 °C
Injection Rate	Fast	Fast
Back Pressure	80.0 to 140 psi	0.552 to 0.965 MPa

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² Typical properties: these are not to be construed as specifications.
- ³ 0.39 in/min (10 mm/min)
- ⁴ 2.0 in/min (50 mm/min)
- ⁵ 0.20 in/min (5.0 mm/min)

