DYNAMID DYN-RN66G30 HSL BK

Polyamide 66

Dynamic Polymer Solutions

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Technical Data

Product Description		
Polyamide 66, 30% 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, 30% 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			
--	1.36	1.36 g/cm³	ASTM D792
73°F (23°C)	1.36 g/cm³	1.36 g/cm³	ISO 1183
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus			
-- [3]	1.23E+6 psi	8480 MPa	ASTM D638
--	1.23E+6 psi	8480 MPa	ISO 527-1/10
Tensile Strength			
Yield [4]	25400 psi	175 MPa	ASTM D638
Yield	25100 psi	173 MPa	ISO 527-2/50
Tensile Elongation			
Break [4]	4.6 %	4.6 %	ASTM D638
Break	2.6 %	2.6 %	ISO 527-2/50
Flexural Modulus [5]	1.08E+6 psi	7440 MPa	ASTM D790 ISO 178
Flexural Strength [5]			
--	32100 psi	221 MPa	ASTM D790
--	35200 psi	243 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	2.6 ft·lb/in²	5.4 kJ/m²	ISO 179
Notched Izod Impact			
73°F (23°C)	1.3 ft·lb/in	69 J/m	ASTM D256
73°F (23°C)	3.7 ft·lb/in²	7.8 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	491 °F	255 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	493 °F	256 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	473 °F	245 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	480 °F	249 °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)

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