

DYNAMID DYN-RN66G35IM HSL BK

Polyamide 66
Dynamic Polymer Solutions

Technical Data

Product Description			
Polyamide 66, 35% glass fiber reinforced, impact modified, 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, 35% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	• Lubricant
Recycled Content	• Yes		
Features	• Abrasion Resistant • Chemical Resistant • Good Processability • Good Stiffness	• Good Strength • Heat Stabilized • High Impact Resistance • Impact Modified	• Low Temperature Impact Resistance • Lubricated
Appearance	• Black		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.35	1.35 g/cm³	ASTM D792
73°F (23°C)	1.35 g/cm³	1.35 g/cm³	ISO 1183

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
-- ³	1.39E+6 psi	9600 MPa	ASTM D638
--	1.39E+6 psi	9600 MPa	ISO 527-1/10
Tensile Strength			
Yield ⁴	19800 psi	137 MPa	ASTM D638
Yield	19600 psi	135 MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	5.0 %	5.0 %	ASTM D638
Break	3.2 %	3.2 %	ISO 527-2/50
Flexural Modulus ⁵			
--	1.20E+6 psi	8270 MPa	ASTM D790
--	943000 psi	6500 MPa	ISO 178
Flexural Strength ⁵			
--	29000 psi	200 MPa	ASTM D790
--	25800 psi	178 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.9 ft·lb/in²	8.2 kJ/m²	ISO 179
Notched Izod Impact			
73°F (23°C)	3.2 ft·lb/in	170 J/m	ASTM D256
73°F (23°C)	9.1 ft·lb/in²	19 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	498 °F	259 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	500 °F	260 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	468 °F	242 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	473 °F	245 °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	518 to 554 °F	270 to 290 °C
Mold Temperature	518 to 554 °F	270 to 290 °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)

