

DYNAMID DYN-N66G45L NC

Polyamide 66
Dynamic Polymer Solutions

Technical Data			
Product Description			
Polyamide 66, 45% glass fiber reinforced & lubricated natural			
General			
Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight		
Additive	• Lubricant		
Features	• Good Stiffness	• Good Strength	• Lubricated
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.51	1.51 g/cm³	ASTM D792
73°F (23°C)	1.51 g/cm³	1.51 g/cm³	ISO 1183
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
-- ³	2.11E+6 psi	14500 MPa	ASTM D638
--	2.11E+6 psi	14500 MPa	ISO 527-1/10
Tensile Strength			
Yield ⁴	31000 psi	214 MPa	ASTM D638
Yield	30900 psi	213 MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.0 %	3.0 %	ASTM D638
Break	3.0 %	3.0 %	ISO 527-2/50
Flexural Modulus ⁵			
--	1.85E+6 psi	12800 MPa	ASTM D790
--	1.74E+6 psi	12000 MPa	ISO 178
Flexural Strength ⁵			
--	52000 psi	359 MPa	ASTM D790
--	49300 psi	340 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.6 ft·lb/in²	7.6 kJ/m²	ISO 179
Notched Izod Impact			
73°F (23°C)	2.3 ft·lb/in	120 J/m	ASTM D256
73°F (23°C)	6.6 ft·lb/in²	14 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	500 °F	260 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	504 °F	262 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	486 °F	252 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	491 °F	255 °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	212 to 248 °F	100 to 120 °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	554 to 599 °F	290 to 315 °C
Mold Temperature	149 to 194 °F	65 to 90 °C
Injection Rate	Fast	Fast
Back Pressure	100 to 150 psi	0.689 to 1.03 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)

