DYNAMID DYN-N66MoS2L NC

Polyamide 66

Dynamic Polymer Solutions

PROSPECTOR®
www.ulprospector.com

Technical Data

Product Description	
Polyamide 66, molybdenum disulfide lubricated natural	

General	
Material Status	• Commercial: Active
Literature [1]	• Technical Datasheet (English)
Availability	• North America
Additive	• Lubricant
Features	• Lubricated
Appearance	• Natural Color
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.16	1.16 g/cm³	ASTM D792
73°F (23°C)	1.16 g/cm³	1.16 g/cm³	ISO 1183
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus			
-- [3]	511000 psi	3520 MPa	ASTM D638
--	510000 psi	3520 MPa	ISO 527-1/10
Tensile Strength			
Yield [4]	12500 psi	86.2 MPa	ASTM D638
Yield	12300 psi	85.0 MPa	ISO 527-2/50
Tensile Elongation			
Break [4]	35 %	35 %	ASTM D638
Break	20 %	20 %	ISO 527-2/50
Flexural Modulus [5]			
--	460000 psi	3170 MPa	ASTM D790
--	508000 psi	3500 MPa	ISO 178
Flexural Strength [5]			
--	17000 psi	117 MPa	ASTM D790
--	16000 psi	110 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	1.1 ft·lb/in²	2.4 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
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
264 psi (1.8 MPa), Unannealed	199 °F	93.0 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	ISO 75-2/A
Peak Melting Temperature	504 °F	262 °C	ASTM D3418 ISO 3146

UL LLC ©2024. All rights reserved.
UL Prospector | 800-788-4668 or 307-742-9227 |www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Form No. TDS-460229-en
Document Created: Tuesday, June 4, 2024
Added to Prospector: December 2023
Last Updated: 4/29/2024

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 to 248 °F	80 to 120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	< 0.15 %	< 0.15 %
Processing (Melt) Temp	509 to 554 °F	265 to 290 °C
Mold Temperature	140 to 176 °F	60 to 80 °C
Injection Rate	Moderate	Moderate
Back Pressure	90.0 to 140 psi	0.621 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)

Form No. TDS-460229-en

UL LLC ©2024. All rights reserved.
UL Prospector | 800-788-4668 or 307-742-9227 |www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Document Created: Tuesday, June 4, 2024
Added to Prospector: December 2023
Last Updated: 4/29/2024