

# Ultramid® HPN 9362 (Cond)

Polyamide 6

BASF Corporation

## Product Description

Ultramid HPN 9362 is a 40% mineral reinforced, impact modified PA6 injection molding compound. It is one of the High Productivity Nylon series having improved surface appearance while reducing cycle time. It possesses excellent balance of strength, stiffness and toughness combined with a high level of drop weight impact, excellent processability and chemical resistance to greases, oils and hydrocarbons.

## General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Mineral Filler, 40% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier
Features	• Fast Molding Cycle • Good Stiffness • Hydrocarbon Resistant • Good Abrasion Resistance • Good Surface Finish • Impact Modified • Good Chemical Resistance • Good Toughness • Low Viscosity • Good Dimensional Stability • Grease Resistant • Oil Resistant • Good Flow • Heat Stabilized • Semi Crystalline • Good Processability • High Strength
Uses	• Automotive Applications • Lawn and Garden Equipment • Housings • Power/Other Tools
Agency Ratings	• ULC Unspecified Rating
RoHS Compliance	• RoHS Compliant
Appearance	• Colors Available • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	2900	MPa	ISO 527-2 <sup>2</sup>
Tensile Strength			
Yield, 23°C	45.0	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2 <sup>2</sup>
Break, 23°C	45.0	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	27	%	ASTM D638
Yield	27	%	ISO 527-2 <sup>2</sup>
Break, 23°C	30	%	ASTM D638
Flexural Modulus			ASTM D790
23°C	1560	MPa	
65°C	970	MPa	
90°C	850	MPa	
121°C	740	MPa	
Flexural Strength			ASTM D790
-40°C	155	MPa	
23°C	50.0	MPa	
65°C	35.0	MPa	
90°C	30.0	MPa	
121°C	25.0	MPa	

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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