

Ultramid® HPN 9362

Polyamide 6

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.

Applications

Ultramid HPN 9362 is generally recommended for applications such as wheel cover and hubs, mirror housings, appliance components, power tool housings, small engine pulleys, and trimmer spools.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.41	
Mold Shrinkage (1/8" bar, in/in)		0.01	
Moisture, %	D-570		
(50% RH)		1.4	
(Saturation)		4.9	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Yield, MPa (psi)	D-638		
23C (73F)		64 (9,280)	45 (6,520)
Tensile Strength, Break, MPa (psi)	D-638		
23C (73F)		62 (8,990)	45 (6,520)
Elongation, Yield, %	D-638		
23C (73F)		3	27
Elongation, Break, %	D-638		
23C (73F)		15	30
Flexural Modulus, MPa (psi)	D-790		
-40C (-40F)		5,230 (758,000)	-
23C (73F)		4,000 (580,000)	1,560 (226,000)
65C (149F)		1,250 (181,000)	970 (141,000)
90C (194F)		770 (112,000)	850 (123,000)
121C (250F)		750 (109,000)	740 (107,000)
Flexural Strength, MPa (psi)	D-790		
-40C (-40F)		180 (26,100)	155 (22,500)
23C (73F)		109 (15,800)	50 (7,250)
65C (149F)		45 (6,520)	35 (5,070)
90C (194F)		30 (4,350)	30 (4,350)
121C (250F)		30 (4,350)	25 (3,620)
Rockwell Hardness, R Scale	D-785	119	-
IMPACT	ASTM Test Method	Dry	Conditioned
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
23C (73F)		86 (1.6)	-



Note

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