

Ultramid® 8202 HS

Polyamide 6

Product Description

Ultramid 8202 HS is a heat stabilized, low viscosity, general purpose PA6 injection molding. It possesses the combination of strength and toughness and has excellent chemical and abrasion resistance. The heat stabilizer system extends the retention of properties at the more elevated temperatures. Excellent in filling thin walls or areas.

Applications

Ultramid 8202 HS is generally recommended for drapery hardware, gears, fittings, furniture casters, bearings, handles, clips, fasteners and thin parts.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.13	
Moisture, %	62		
(24 Hour)		1.6	
(50% RH)		2.7	
(Saturation)		9.5	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		2,700	970
80C		485	550
121C		360	320
Tensile stress at yield, MPa	527		
-40C		126	110
23C		78	36
80C		35	30
121C		25	20
Tensile strain at yield, %	527		
23C		4	16
Nominal strain at break, %	527		
23C		25	>50
Flexural Strength, MPa	178		
23C		85	25
Flexural Modulus, MPa	178		
23C		2,400	770
IMPACT	ISO Test Method	Dry	Conditioned
Charpy Notched, kJ/m ²	179		
23C		3.5	-
Charpy Unnotched, kJ/m ²	179		
23C		N	-
-30C		51	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	60	-



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ELECTRICAL		ISO Test Method	Dry	Conditioned
Comparative Tracking Index		IEC 60112	600	-
Volume Resistivity		IEC 60093	>1E13	-
Dielectric Strength, KV/mm		IEC 60243-1	37	-
UL RATINGS		UL Test Method	Property Value	
Flammability Rating, 1.5mm		UL94	V-2	
Relative Temperature Index, 1.5mm		UL746B		
Mechanical w/o Impact, C			105	
Mechanical w/ Impact, C			105	
Electrical, C			130	

