

Ultramid® 8200 HS

Polyamide 6

Product Description

Ultramid 8200 HS is a heat stabilized, medium viscosity, PA6 injection molding homopolymer, exhibiting resistance to sink-mark formation in thick sections, and improved toughness over conventional lower viscosity grades. It possesses a combination of strength, stiffness and toughness properties as well as excellent heat, chemical and abrasion resistance. It is available in natural and pigmented versions.

Applications

Ultramid 8200 HS is generally recommended for application such as wiring devices, plugs, receptacles, gears, connectors, convoluted tubing, filter housings, hinges, and textile components.

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	
Tensile stress at yield, MPa	527		
-40C		136	120
23C		80	39
121C		23	-
Tensile strain at yield, %	527		
23C		5	16
Nominal strain at break, %	527		
23C		25	>50
Flexural Strength, MPa	178		
23C		82	-
Flexural Modulus, MPa	178		
23C		2,400	-
IMPACT	ISO Test Method	Dry	Conditioned
Charpy Notched, kJ/m ²	179		
23C		3.5	-
Charpy Unnotched, kJ/m ²	179		
23C		N	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	60	-

