

Ultramid® 8202C

Polyamide 6

Product Description

Ultramid 8202C is a modified crystalline and low viscosity, PA6 injection molding homopolymer. It is also available in heat stabilized (Ultramid 8202C HS) and/or pigmented versions. Its unique crystalline structure results in increased strength, stiffness, heat distortion temperature and performance under load as a homopolymer. It also cycles faster while maintaining properties and chemical resistance.

Applications

Ultramid 8202C is ideally suited for applications such as: furniture casters, gears, window hardware, and fittings, insulators, bushings, valves, relays, wiring devices, and other electrical components.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.13	
Moisture, %	62		
(24 Hour)		1.6	
(50% RH)		2.6	
(Saturation)		9.3	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
-40C		4,090	-
23C		3,700	1,360
80C		750	-
121C		550	-
Tensile stress at yield, MPa	527		
-40C		137	142
23C		88	43
80C		40	30
121C		30	25
Tensile stress at break, MPa	527		
Tensile strain at yield, %	527		
23C		4	22
Nominal strain at break, %	527		
23C		7	>50
Flexural Strength, MPa	178		
23C		95	-
Flexural Modulus, MPa	178		
23C		2,800	-
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



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Melting Point, C	3146	220	-
HDT A, C	75	65	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	600	-
Volume Resistivity	IEC 60093	>1E13	-
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		85	
Mechanical w/ Impact, C		75	
Electrical, C		125	

