

Ultramid® 8202

Polyamide 6

Product Description

Ultramid 8202 is a low viscosity, general purpose PA6 injection molding homopolymer exhibiting excellent melt fluidity for filling thin sections. It is also available in heat stabilized (Ultramid 8202 HS) and/or pigmented versions. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance.

Applications

Ultramid 8202 is generally recommended for applications such as gears, fittings, casters, beatings, clips, fasteners, plugs, caps, and filter bowls.

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	-



ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	600	-
Volume Resistivity	IEC 60093	>1E13	-
Dielectric Constant (100 Hz)	IEC 60250	3.5	-
Dielectric Constant (1 MHz)	IEC 60250	3.3	-
Dissipation Factor (100 Hz)	IEC 60250	100	-
Dissipation Factor (1 MHz)	IEC 60250	200	-
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		85	
Mechanical w/ Impact, C		75	
Electrical, C		125	

