Product Information

Ultramid® 8202CQ
Polyamide 6

BASF
The Chemical Company

Product Description

Ultramid 8202CQ is a low viscosity, PA6 injection molding homopolymer, possessing a modified crystalline structure for increased property performance and faster cycles.

Applications

Ultramid 8202CQ is generally recommended for applications such as furniture casters, gears, window hardware, end fittings, insulators, bushings, slides, 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)		9.2	
MECHANICAL	**ISO Test Method**	**Dry**	**Conditioned**
Tensile Modulus, MPa	527		
-40C		3,730	-
23C		3,600	1,220
80C		675	-
121C		490	-
Tensile stress at yield, MPa	527		
-40C		137	142
23C		86	43
80C		40	-
121C		25	-
Tensile strain at yield, %	527		
23C		4	14
Nominal strain at break, %	527		
23C		10	>50
Flexural Strength, MPa	178		
23C		90	29
Flexural Modulus, MPa	178		
23C		2,800	1,010
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	-
ELECTRICAL	**ISO Test Method**	**Dry**	**Conditioned**

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Comparative Tracking Index	IEC 60112	450	-

UL RATINGS	UL Test Method	Property Value
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, C		85
Mechanical w/ Impact, C		75
Electrical, C		125