

Ultramid® B3S Q661

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3S Q661 is a general purpose, PA6 resin for injection molding.

Applications

Ultramid B3S Q661 is suitable for wide range of applications due to its rapid cycling and excellent physical properties.

General			
Material Status	Commercial: Active		
Availability	North America		
Features	 Fast Molding Cycle 	General Purpose	Oil Resistant
Uses	General Purpose		
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	 RoHS Compliant 		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Prope	ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method			
Density / Specific Gravity	1.13		ASTM D792			
Density	1.13	g/cm³	ISO 1183			
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	150	cm³/10min	ISO 1133			
Mechanical	Nominal Value	Unit	Test Method			
Tensile Modulus (73°F)	464000	psi	ISO 527-2			
Tensile Strength (Yield, 73°F)	11500	psi	ASTM D638			
Tensile Stress (Yield, 73°F)	12300	psi	ISO 527-2			
Tensile Strain (Yield, 73°F)	3.8	%	ISO 527-2			
Tensile Elongation (Break, 73°F)	4.2	%	ASTM D638			
Flexural Modulus (73°F)	397000	psi	ASTM D790			
Impact	Nominal Value	Unit	Test Method			
Charpy Notched Impact Strength (73°F)	1.4	ft·lb/in²	ISO 179			
Notched Izod Impact (73°F)	0.99	ft·lb/in	ASTM D256			
Notched Izod Impact Strength (73°F)	2.4	ft·lb/in²	ISO 180			
Thermal	Nominal Value	Unit	Test Method			
Deflection Temperature Under Load (66 psi, Unannealed)	356	°F	ASTM D648			
Heat Deflection Temperature (66 psi, Unannealed)	356	°F	ISO 75-2/B			
Deflection Temperature Under Load			ASTM D648			
264 psi, Unannealed	169	°F				
Heat Deflection Temperature (264 psi, Unannealed)	149	°F	ISO 75-2/A			
Peak Melting Temperature	428	°F	ASTM D3418			
Melting Temperature (DSC)	428	°F	ISO 3146			
RTI Elec			UL 746			
0.030 in	266	°F				
0.06 in	266	°F				
0.12 in	266	°F				

our control, and we cannot and will not take responsibility for the information or content.



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Thermal	Nominal Value	Unit	Test Method
RTI Imp			UL 746
0.06 in	167	°F	
0.12 in	167	°F	
RTI Str			UL 746
0.06 in	230	°F	
0.12 in	239	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-2		
0.06 in	V-2		
0.12 in	V-2		
	Processing Information		
Injection	Nominal Value	Unit	
Drying Temperature	176	°F	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	464 to 545	°F	
Mold Temperature	149 to 176	°F	
Injection Pressure	508 to 1810	psi	

Notes

Injection Rate



Fast

¹ Typical properties: these are not to be construed as specifications.