Ultramid® B3S Q661

Polyamide 6

BASF Corporation

Message:

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 Information			
UL YellowCard	E36632-531655		
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		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.13	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	145	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	3200	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	79.0	MPa	ASTM D638
Yield, 23°C	85.0	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	3.8	%	ISO 527-2
Break, 23°C	4.2	%	ASTM D638
Flexural Modulus (23°C)	2740	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	3.0	kJ/m²	ISO 179
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C	5.0	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	180	°C	ASTM D648
1.8 MPa, Unannealed	76.0	°C	ASTM D648

1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Peak Melting Temperature	220	°C	ASTM D3418, ISO 3146
RTI Elec			UL 746
0.750 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	
RTI Imp			UL 746
1.50 mm	75.0	°C	
3.00 mm	75.0	°C	
RTI Str			UL 746
1.50 mm	110	°C	
3.00 mm	115	°C	

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
0.750 mm	V-2	
1.50 mm	V-2	
3.00 mm	V-2	

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	240 to 285	°C
Mold Temperature	65.0 to 80.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

Recommended distributors for this material

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