

Ultramid® A3K Q601

Polyamide 66

BASF Corporation

Message:

Ultramid A3K Q601 is an easy flowing, injection molding grade PA66.

Applications

Typical applications include fast processing high stress technical parts or electrically insulating parts.

General Information				
UL YellowCard		E36632-100134814	E36632-531626	
Features		Fast Molding Cycle		
		Good Flow		
		Oil Resistant		
Uses		Electronic Insulation		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	8.5	--	%	
Equilibrium, 23°C, 50% RH	2.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	83.0	54.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	25	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	25	> 50	%	ISO 527-2
Flexural Modulus (23°C)	2800	1100	MPa	ISO 178
Flexural Stress (23°C)	100	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	4.0	4.0	kJ/m ²	
23°C	5.7	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	No Break	No Break		
23°C	No Break	No Break		

Notched Izod Impact Strength (23°C)	5.2	14	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
RTI Elec				UL 746
0.400 mm	65.0	--	°C	
0.750 mm	125	--	°C	
1.50 mm	125	--	°C	
3.00 mm	125	--	°C	
RTI Imp				UL 746
0.400 mm	65.0	--	°C	
0.750 mm	80.0	--	°C	
1.50 mm	80.0	--	°C	
3.00 mm	80.0	--	°C	
RTI Str				UL 746
0.400 mm	65.0	--	°C	
0.750 mm	80.0	--	°C	
1.50 mm	85.0	--	°C	
3.00 mm	90.0	--	°C	
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
0.400 mm	V-2	--		
0.750 mm	V-2	--		
1.50 mm	V-2	--		
3.00 mm	V-2	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	40.0 to 80.0		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			

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