

# Ultramid® T KR 4365 G5

## BASF Corporation - Polyamide 6/6T Copolymer

Monday, November 4, 2019

### **General Information**

#### **Product Description**

Ultramid T KR 4365 G5 is a 25% glass fiber reinforced, flame-retardant, injection molding PA6/6T grade. Good mechanical properties, high tracking resistance, low tendency for deposits on electrical contacts, very resistant to electrolytic corrosion, resistant to solder baths; electroplateable. Flame retardant based on red phosphorus.

General					
Material Status	Commercial: Active				
Availability	Asia Pacific	• Europe	North America		
Filler / Reinforcement	Glass Fiber, 25% Filler by Weight				
Additive	Flame Retardant [Red phosphorus]				
Features	<ul><li>Copolymer</li><li>Corrosion Resistant</li></ul>	<ul><li>Flame Retardant</li><li>Tracking Resistant</li></ul>			
Agency Ratings	• EC 1907/2006 (REACH)				
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>				
Forms	• Pellets				
Processing Method	<ul> <li>Injection Molding</li> </ul>				

ASTM & ISO Properties 1							
Physical	Dry	Conditioned	Unit	Test Method			
Density	1.38		g/cm³	ISO 1183			
Water Absorption				ISO 62			
Saturation, 73°F	5.5		%				
Water Absorption				ISO 62			
Equilibrium, 73°F, 50% RH	1.3		%				
Mechanical	Dry	Conditioned	Unit	Test Method			
Tensile Modulus (73°F)	1.20E+6	1.16E+6	psi	ISO 527-2			
Tensile Stress				ISO 527-2			
Break, -40°F	27800	25700	psi				
Break, 73°F	21800	20300	psi				
Break, 176°F	13900		psi				
Tensile Strain				ISO 527-2			
Break, -40°F	2.9	2.6	%				
Break, 73°F	3.0	3.0	%				
Break, 176°F	2.5		%				
Impact	Dry	Conditioned	Unit	Test Method			
Charpy Notched Impact Strength				ISO 179			
-22°F	3.3		ft·lb/in²				
73°F	6.2		ft·lb/in²				
Charpy Unnotched Impact Strength				ISO 179			
-22°F	38		ft·lb/in²				
73°F	36		ft·lb/in²				
Thermal	Dry	Conditioned	Unit	Test Method			
Heat Deflection Temperature				ISO 75-2/A			
264 psi, Unannealed	428		°F				



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Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature (DSC)	563		°F	ISO 3146
CLTE - Flow	1.4E-5		in/in/°F	
CLTE - Transverse	3.1E-5		in/in/°F	
RTI Elec				UL 746
0.030 in	284		°F	
0.06 in	284		°F	
0.12 in	284		°F	
RTI Imp				UL 746
0.030 in	212		°F	
0.06 in	221		°F	
0.12 in	230		°F	
RTI Str				UL 746
0.030 in	248		°F	
0.06 in	266		°F	
0.12 in	284		°F	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15		ohms∙cm	IEC 60093
Dielectric Constant (1 MHz)	4.00			IEC 60250
Dissipation Factor (1 MHz)	0.020			IEC 60250
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.015 in	V-2			
0.030 in	V-0			
0.12 in	V-0			
0.06 in	5VA			

### **Notes**

<sup>&</sup>lt;sup>1</sup> Typical properties: these are not to be construed as specifications.