

Ultramid® T KR 4365 G5

Polyamide 6/6T Copolymer

BASF Corporation

Message:

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.

General Information				
UL YellowCard		E36632-531681	E41871-233773	
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Copolymer		
		Flame Retardant		
		Good Corrosion Resistance		
		Tracking Resistant		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Creep Modulus vs. Time (ISO 11403-1)		
		Isochronous Stress vs. Strain (ISO 11403-1)		
		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.5	--	%	
Equilibrium, 23°C, 50% RH	1.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8300	8000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Break, -40°C	192	177	MPa	
Break, 23°C	150	140	MPa	
Break, 80°C	96.0	--	MPa	
Tensile Strain (Break, 23°C)	3.0	3.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179

-30°C	7.0	--	kJ/m ²	
23°C	13	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	80	--	kJ/m ²	
23°C	75	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	280	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	270	--	°C	ISO 75-2/A
Melting Temperature (DSC)	295	--	°C	ISO 3146
CLTE				
Flow	2.5E-5	--	cm/cm/°C	
Transverse	5.5E-5	--	cm/cm/°C	
RTI Elec				UL 746
0.750 mm	140	--	°C	
1.50 mm	140	--	°C	
3.00 mm	140	--	°C	
RTI Imp				UL 746
0.750 mm	100	--	°C	
1.50 mm	105	--	°C	
3.00 mm	110	--	°C	
RTI Str				UL 746
0.750 mm	120	--	°C	
1.50 mm	130	--	°C	
3.00 mm	140	--	°C	
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
0.370 mm	V-2	--		
0.750 mm	V-0	--		
3.00 mm	V-0	--		
1.50 mm	5VA	--		

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