

Ultramid® T KR 4355 G5

Polyamide 6/6T Copolymer

BASF Corporation

Message:

Ultramid T KR 4355 G5 is a 25% glass fiber reinforced injection molding PA6/6T grade featuring high toughness, stiffness, and strength, low water absorption, and high melting point (295 C). After the material has been conditioned, its mechanical properties remain stable up to 65 C.

General Information				
UL YellowCard		E41871-233767		
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Copolymer		
		Good Toughness		
		High Stiffness		
		High Strength		
		Low to No Water Absorption		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	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)	9000	9000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Break, -40°C	214	203	MPa	
Break, 23°C	185	170	MPa	
Break, 80°C	111	--	MPa	
Tensile Strain (Break, 23°C)	3.0	3.0	%	ISO 527-2
Flexural Modulus (23°C)	7300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179

-30°C	8.5	--	kJ/m ²	
23°C	11	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	60	--	kJ/m ²	
23°C	80	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (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	115	--	°C	
3.00 mm	115	--	°C	
RTI Str				UL 746
0.750 mm	120	--	°C	
1.50 mm	140	--	°C	
3.00 mm	140	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+14	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	4.30	4.50		IEC 60250
Dissipation Factor (1 MHz)	0.030	0.040		IEC 60250
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.440 mm	HB	--		
0.750 mm	HB	--		
1.50 mm	HB	--		
3.00 mm	HB	--		

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