Ultramid® T KR 4357 G6

Polyamide 6/6T Copolymer

BASF Corporation

Message:

Ultramid T KR 4357 is a 30% glass fiber reinforced, impact-modified, injection-molding PA6/6T grade. High toughness, stiffness and strength, low water absorption. High melting point (295 C). After the material has been conditioned, its mechanical properties remain stable up to 60 C.

General Information	
UL YellowCard	E41871-233770
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Impact Modifier
Features	Copolymer Good Toughness High Stiffness High Strength Impact Modified Low to No Water Absorption
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) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	0.80	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	9300	9000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Break, -40°C	249	235	MPa	
Break, 23°C	165	145	MPa	
Tensile Strain (Break, 23°C)	3.5	3.5	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**

Charpy Notched Impact Strength				ISO 179
-30°C	10	--	kJ/m²	
23°C	19	21	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	90	--	kJ/m²	
23°C	95	100	kJ/m²	
Notched Izod Impact Strength (23°C)	23	--	kJ/m²	ISO 180
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	110	--	°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+15	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
0.750 mm	HB	--		
1.50 mm	HB	--		
3.00 mm	HB	--		

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