

Ultramid® T KR 4340 G6

Polyamide 6/6T Copolymer

BASF Corporation

Message:

Partially aromatic polyamid, halogen-free flame-retardant, light colorable, outstanding flame retardance, resistant to soldering temperatures

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Aromatic		
		Flame Retardant		
		Halogen Free		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (325°C/5.0 kg)	45.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.3 to 5.3	--	%	
Equilibrium, 23°C, 50% RH	1.4 to 1.8	--	%	
Viscosity Number (96% H2SO4 (Sulphuric Acid))	120	--	cm ³ /g	ISO 307
Mold Shrinkage - constrained ¹	0.10	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	11000	MPa	ISO 527-2
Tensile Stress (Break)	150	130	MPa	ISO 527-2
Tensile Strain (Break)	2.5	2.5	%	ISO 527-2
Flexural Modulus	11000	11000	MPa	ISO 178
Flexural Stress	240	210	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	--	kJ/m ²	

23°C	8.5	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	--	kJ/m ²	
23°C	65	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	--	°C	ISO 75-2/A
Melting Temperature	290	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	2.0E-5 to 2.5E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	6.5E-5 to 7.5E-5	--	cm/cm/°C	
Specific Heat	1200	--	J/kg/°C	
Thermal Conductivity	0.37	--	W/m/K	DIN 52612
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+17	1.0E+16	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.90	4.10		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.027		IEC 60250
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-0	--		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	310 to 330		°C	
Mold Temperature	80.0 to 120		°C	
NOTE				

1.

Test box with central gating, dimensions of base (107*47*1,5) mm, processing condition: TM = 320°C (unreinforced) or 330°C (reinforced), TW = 80°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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