

Ultramid® T KR 4355 G7 BK00564

Polyamide 6/6T Copolymer

BASF Corporation

Message:

Ultramid T KR 4355 G7 BK00564 is a 35% 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 60 C. This grade is available in black.

General Information				
UL YellowCard		E41871-233768		
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Features		Good Toughness		
		High Stiffness		
		High Strength		
		Low to No Water Absorption		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	4.8	--	%	
Equilibrium, 23°C, 50% RH	1.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	12000	--	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Break, -40°C	279	270	MPa	
Break, 23°C	210	200	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	12	--	kJ/m ²	
23°C	17	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	70	--	kJ/m ²	
23°C	100	--	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	1.5E-5	--	cm/cm/°C	
Transverse	5.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+14	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	4.20	4.40		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.030		IEC 60250
Comparative Tracking Index	600	600	V	IEC 60112

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