



Ultramid® T KR 4355 G7 BK00564

BASF Corporation - Polyamide 6/6T Copolymer

Monday, November 4, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• Good Toughness • High Strength • High Stiffness • Low to No Water Absorption
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F	4.8	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	1.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.74E+6	--	psi	ISO 527-2
Tensile Stress				ISO 527-2
Break, -40°F	40500	39200	psi	
Break, 73°F	30500	29000	psi	
Tensile Strain				ISO 527-2
Break, -40°F	3.0	2.7	%	
Break, 73°F	3.0	3.0	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F	5.7	--	ft·lb/in ²	
73°F	8.1	--	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
-22°F	33	--	ft·lb/in ²	
73°F	48	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	473	--	°F	
Melting Temperature (DSC)	563	--	°F	ISO 3146
CLTE - Flow	8.3E-6	--	in/in/°F	

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Thermal	Dry	Conditioned	Unit	Test Method
CLTE - Transverse	3.1E-5	--	in/in/°F	
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

Notes

¹ Typical properties: these are not to be construed as specifications.