

**Processing Method** 

# Ultramid® T KR 4357 G6

### BASF Corporation - Polyamide 6/6T Copolymer

Monday, November 4, 2019

· Low to No Water Absorption

Product Description						
•	ass fiber reinforced, impact-modified, in point (295 C). After the material has bee	, , ,	gh toughness, stiffness and strength, low perties remain stable up to 60 C.			
General						
Material Status	Commercial: Active					
Availability	Asia Pacific	• Europe	North America			
Filler / Reinforcement	Glass Fiber, 30% Filler b	Glass Fiber, 30% Filler by Weight				
Additive	<ul> <li>Impact Modifier</li> </ul>					
Features	Copolymer     Copolymer	High Stiffness	Impact Modified			

· High Strength

**General Information** 

Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>
Automotive Specifications	GM QK 001303 Type A Color: 564 Black
Forms	• Pellets

• Good Toughness

· Injection Molding

	ASTM & ISO Pro	perties 1		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37		g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F	4.5		%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	0.80		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.35E+6	1.31E+6	psi	ISO 527-2
Tensile Stress				ISO 527-2
Break, -40°F	36100	34100	psi	
Break, 73°F	23900	21000	psi	
Tensile Strain				ISO 527-2
Break, -40°F	3.6	2.9	%	
Break, 73°F	3.5	3.5	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F	4.8		ft·lb/in²	
73°F	9.0	10	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179
-22°F	43		ft·lb/in²	
73°F	45	48	ft·lb/in²	
Notched Izod Impact Strength				ISO 180
73°F	11		ft·lb/in²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	464		°F	



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Thermal	Dry	Conditioned	Unit	Test Method	
Melting Temperature (DSC)	563		°F	ISO 3146	
CLTE - Flow	1.4E-5		in/in/°F		
CLTE - Transverse	3.1E-5		in/in/°F		
RTI Elec				UL 746	
0.030 in	284		°F		
0.06 in	284		°F		
0.12 in	284		°F		
RTI Imp				UL 746	
0.030 in	212		°F		
0.06 in	230		°F		
0.12 in	239		°F		
RTI Str				UL 746	
0.030 in	248		°F		
0.06 in	284		°F		
0.12 in	284		°F		
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	
0.030 in	HB				
0.06 in	HB				
0.12 in	НВ				
	Processing Info	rmation			
Injection	Dry Unit				
Drying Temperature		230 °F			
Drying Time		8.0 hr			
Suggested Max Moisture		0.15 %			
Processing (Melt) Temp		590 to 626 °F			
Mold Temperature		176 to 248 °F			

#### Notes

<sup>&</sup>lt;sup>1</sup> Typical properties: these are not to be construed as specifications.