

# Ultramid® T KR 4355 G5

## Polyamide 6/6T Copolymer



### Product Description

Ultramid T KR 4355 G5 is a 25% 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 65 C.

PHYSICAL		ISO Test Method	Property Value	
Density, g/cm		1183	1.35	
Moisture, %		62		
(50% RH)			1.3	
(Saturation)			5.5	
MECHANICAL		ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa		527		
23C			9,000	9,000
Tensile stress at break, MPa		527		
-40C			214	203
23C			185	170
80C			111	-
Tensile strain at break, %		527		
23C			3	3
Flexural Modulus, MPa		178		
23C			7,300	-
IMPACT		ISO Test Method	Dry	Conditioned
Charpy Notched, kJ/m <sup>2</sup>		179		
23C			11	-
-30C			8.5	-
Charpy Unnotched, kJ/m <sup>2</sup>		179		
23C			80	-
-30C			60	-
THERMAL		ISO Test Method	Dry	Conditioned
Melting Point, C		3146	295	-
HDT A, C		75	270	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C			0.25 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C			0.55 X10-4	-
ELECTRICAL		ISO Test Method	Dry	Conditioned
Comparative Tracking Index		IEC 60112	600	600
Volume Resistivity		IEC 60093	1E13	1E12
Dielectric Constant (1 MHz)		IEC 60250	4.3	4.5
Dissipation Factor (1 MHz)		IEC 60250	300	400
UL RATINGS		UL Test Method	Property Value	
Flammability Rating, 1.5mm		UL94	HB	
Relative Temperature Index, 1.5mm		UL746B		



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Mechanical w/o Impact, C	140
Mechanical w/ Impact, C	115
Electrical, C	140

## Note

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