

# Ultramid® T KR 4357 G6

## Polyamide 6/6T Copolymer



### Product Description

Ultramid T KR 4357 is a 30% glass fiber reinforced, impact-modified, injection-molding PA6/6T grade. High toughness, stiffness and strength, low water absorption. High melting point (295 C). After the material has been conditioned, its mechanical properties remain stable up to 60 C.

PHYSICAL		ISO Test Method	Property Value	
Density, g/cm <sup>3</sup>		1183	1.37	
Moisture, %		62		
(50% RH)			0.8	
(Saturation)			4.5	
MECHANICAL		ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa		527		
23C			9,300	9,000
Tensile stress at break, MPa		527		
-40C			249	235
23C			165	145
Tensile strain at break, %		527		
23C			3.5	3.5
IMPACT		ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m <sup>2</sup>		180		
23C			23	-
Charpy Notched, kJ/m <sup>2</sup>		179		
23C			19	21
-30C			10	-
Charpy Unnotched, kJ/m <sup>2</sup>		179		
23C			95	100
-30C			90	-
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 <sup>-4</sup>	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C			0.55 X10 <sup>-4</sup>	-
ELECTRICAL		ISO Test Method	Dry	Conditioned
Comparative Tracking Index		IEC 60112	600	600
Volume Resistivity		IEC 60093	>1E13	1E13
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		
Mechanical w/o Impact, C			140	



Mechanical w/ Impact, C	110
Electrical, C	140

## Note

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required.



BASF Corporation  
Engineering Plastics  
609 Biddle Avenue  
Yandotte, MI 48192

