

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 ²	179		
23C		11	-
-30C		8.5	-
Charpy Unnotched, kJ/m ²	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		



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

