Product Information

Aug 2013

Ultramid® T KR 4355 G5
Polyamide 6/6T Copolymer

BASF The Chemical Company

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		

ASF Corporation
ngineering Plastics
509 Biddle Avenue
yandotte, MI 48192

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

Note

ASF Corporation
ngineering Plastics
509 Biddle Avenue
yandotte, MI 48192