Product Information

Aug 2013

Ultramid® T KR 4357 G6
Polyamide 6/6T Copolymer

BASF The Chemical Company

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	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^2	180		
23C		23	-
Charpy Notched, kJ/m^2	179		
23C		19	21
-30C		10	-
Charpy Unnotched, kJ/m^2	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 X10-4	-
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	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	

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Mechanical w/ Impact, C	110
Electrical, C	140

Note

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