

Triax KU2-3154

mineral reinforced; easy-flowing; reduced moisture absorption; very low warpage; injection molding grade; Pellets

ISO Shortname: [ABS+PA]

Property	Test Condition	Unit	Standard	Value	
				d.a.m.	cond.
Rheological properties					
C Melt volume-flow rate	260 °C; 5 kg	cm ³ /(10 min)	ISO 1133	8,5	
C Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 500 bar	%	ISO 294-4	0,55	
C Molding shrinkage, normal	60x60x2; 260 °C / MT 80 °C; 500 bar	%	ISO 294-4	0,6	
Post- shrinkage, parallel	60x60x2; 80 °C; 1 h	%	ISO 294-4	0,1	
Post- shrinkage, normal	60x60x2; 80 °C; 1 h	%	ISO 294-4	0,1	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2700	2000
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	55	39
C Yield strain	50 mm/min	%	ISO 527-1,-2	2.9	4
C Nominal strain at break	50 mm/min	%	ISO 527-1,-2	35	
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	38	33
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	35	>= 100
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	150	>= 150
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	100	60
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	8	
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	6	
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	100	>= 100
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	60	55
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	7.0	>= 7.0
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	5	5
Flexural modulus	2 mm/min	MPa	ISO 178	2500	1800
Flexural strength	2 mm/min	MPa	ISO 178	80	62
Flexural strain at flexural strength	2 mm/min	%	ISO 178	5.0	6.0
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178	75	55
Thermal properties					
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	83	93
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	97	96
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	105	95
Vicat softening temperature	10 N; 120 °C/h	°C	ISO 306	130	115
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0,65	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1,0	
C Burning behavior UL 94 (1.6 mm)	1.5 mm	Class	UL 94	HB	
Electrical properties (23 °C/50 % r. h.)					
C Relative permittivity	100 Hz	-	IEC 60250	3.4	5.0
C Relative permittivity	1 MHz	-	IEC 60250	3.1	3.3



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C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	150	650
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	150	400
C Volume resistivity		Ohm·m	IEC 60093	1E13	1E11
C Surface resistivity		Ohm	IEC 60093	1E15	1E14
C Electric strength	1 mm	kV/mm	IEC 60243-1	40	40
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	600	
Other properties (23 °C)					
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	~3,9	
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	~1,3	
C Density		kg/m ³	ISO 1183	1110	
Glass fiber / glass bead / filler content		%	ISO 3451-1	8	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	260	
C Injection molding-Mold temperature		°C	ISO 294	80	
C Injection molding-Injection velocity		mm/s	ISO 294	40	

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.