



VECTRA® C130 - Data Sheet

Has the same excellent balance of properties as A130 with higher temperature capability and easier flow. Slightly more dimensional stability in vapor phase soldering than A130. Suitable for some infra red SMT applications. 30% glass reinforced.

Property	Method	Value	Units
Physical Properties			
● Density	ISO 1183	1620	kg/m ³
● Mold shrinkage - parallel	ISO 294-4	0.2	%
● Mold shrinkage - normal	ISO 294-4	0.4	%
Mechanical Properties			
● Tensile modulus (1mm/min)	ISO 527-2/1A	15000	MPa
● Tensile stress at break (5mm/min)	ISO 527-2/1A	160	MPa
● Tensile strain at break (5mm/min)	ISO 527-2/1A	1.9	%
● Tensile creep modulus 1h	ISO 899-1	13600	MPa
● Tensile creep modulus 1000h	ISO 899-1	11700	MPa
● Flexural modulus (23°C)	ISO 178	14000	MPa
● Flexural strength (23°C)	ISO 178	245	MPa
● Compressive stress @ 1% strain	ISO 604	139	MPa
● Charpy impact strength @ 23C	ISO 179/1eU	28	KJ/m ²
● Charpy notched impact strength @ 23°C	ISO 179/1eA	25	KJ/m ²
● Unnotched impact str (Izod) @ 23°C	ISO 180/1U	26	KJ/m ²
● Notched impact strength (Izod) @ 23°C	ISO 180/1A	20	KJ/m ²
● Compressive modulus	ISO 604	22,000	MPa
● Rockwell hardness	ISO 2039-2	80	M-Scale
Thermal Properties			
● Melting temperature (10 C/min)	ISO 11357-1,-2,-3	325	°C
● DTUL @ 1.8 MPa	ISO 75-1, -2	255	°C
● DTUL @ 0.45 MPa	ISO 75-1, -2	250	°C
● DTUL @ 8.0 MPa	ISO 75-1, -2	211	°C

● Vicat softening temperature B50 (50C/h 50N)	ISO 306	192	°C
● Coeff. of linear therm expansion (parallel)	ISO 11359-2	0.06	E-4/°C
● Coeff. of linear therm expansion (normal)	ISO 11359-2	0.18	E-4/°C
● Limiting oxygen index (LOI)	ISO 4589	45	%
● Flammability at thickness h	UL94	V-0	Class
Electrical Properties			
● Relative permittivity - 100Hz	IEC 60250	4.2	
● Relative permittivity - 1MHz	IEC 60250	3.7	
● Dissipation factor - 100Hz	IEC 60250	140	E-4
● Dissipation factor - 1MHz	IEC 60250	180	E-4
● Volume resistivity	IEC 60093	1E13	ohm-m
● Surface resistivity	IEC 60093	>1E15	ohm
● Electric strength	IEC 60243-1	35	KV/mm
● Comparative tracking index CTI	IEC 60112	200	-
● Arc resistance	Internal	182	seconds
Test Specimen Production			
● Injection molding mold temperature	ISO 294	100	°C