

TECHNYL® C 50H2 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 50H2 Natural is a unreinforced melamine cyanurate flame retarded polyamide 6. This product is heat stabilised and can be used for injection moulding and extrusion processes. This product is available in natural & black, and in other colours up

General Information				
UL YellowCard		E44716-235530		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Ductile		
		Flame Retardant		
		Good Moldability		
		Good Stiffness		
		Heat Stabilized		
Uses		Connectors		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
		Colors Available		
		Natural Color		
Processing Method		Extrusion		
		Injection Molding		
Part Marking Code (ISO 11469)		>PA6 FR(30)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	1.3	--	%	
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3500	2000	MPa	ISO 527-2/1A
Tensile Strength				
Yield	80.0	--	MPa	ASTM D638

Yield	75.0	50.0	MPa	ISO 527-2/1A
Break	80.0	--	MPa	ASTM D638
Break	60.0	40.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield	3.5	5.0	%	ISO 527-2/1A
Break	15	--	%	ASTM D638
Break	25	38	%	ISO 527-2/1A
Flexural Modulus				
--	3500	--	MPa	ASTM D790
--	3150	2000	MPa	ISO 178
Flexural Strength				
--	115	--	MPa	ASTM D790
--	200	70.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	180	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	65	--	J/m	ASTM D256
23°C	3.5	15	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	75.0	--	°C	ASTM D648, ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	34	30	kV/mm	IEC 60243-1
Relative Permittivity (4 Hz)	3.50	--		IEC 60250
Dissipation Factor	0.020	0.060		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	475	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.380 mm	V-0	--		
0.800 mm	V-0	--		
1.60 mm	V-0	--		
3.20 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12

0.800 mm	960	--	°C	
1.60 mm	960	--	°C	
3.20 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	700	--	°C	
1.60 mm	700	--	°C	
3.20 mm	700	--	°C	
Oxygen Index	36	--	%	ISO 4589-2
Fire and Smoke F Index	I2/F2	--		NF F16-101
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 to 235		°C	
Middle Temperature	235 to 245		°C	
Front Temperature	245 to 250		°C	
Mold Temperature	70.0 to 100		°C	

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