

Stanyl® CR310

PA46-GF30 FR

30% Glass Reinforced, High Flow, Flame Retardant, Halogen free and free of red phosphorous

Print Date: 2019-09-28

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294-4
Molding shrinkage (normal)	1 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	12500 / 8000	MPa	ISO 527-1/-2
Stress at break	140 / 100	MPa	ISO 527-1/-2
Strain at break	1.7 / 2.5	%	ISO 527-1/-2
Flexural modulus	12500 / 8000	MPa	ISO 178
Charpy impact strength (+23°C)	35 / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 9	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	290 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	290 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.35 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.45 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Relative Temperature Index - electrical	65	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B

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Properties	Typical Data	Unit	Test Method
Electrical properties			
	dry / cond		
Volume resistivity	>1E13 / 1E10	Ohm*m	IEC 60093
Electric strength	33 / 31	kV/mm	IEC 60243-1
Comparative tracking index	425 / -	V	IEC 60112
Relative permittivity (1 MHz)	4.1 / 4.9	-	IEC 60250
Relative permittivity (1GHz)	3.9 / 4.2	-	IEC 60250
Other properties			
	dry / cond		
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1530 / -	kg/m ³	ISO 1183