

Stanyl[®] TS350

PA46 FR(17)

Unreinforced, Heat Stabilized, Flame Retardant

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	1.5 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.5 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	3400 / -	MPa	ISO 527-1/-2
Yield stress	80 / -	MPa	ISO 527-1/-2
Nominal strain at break	7 / -	%	ISO 527-1/-2
Flexural modulus	3200 / -	MPa	ISO 178
Flexural strength	130 / -	MPa	ISO 178
Charpy notched impact strength (+23°C)	4 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / -	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)	190 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.8 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>ELECTRICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Volume resistivity	1E13 / 1E7	Ohm*m	IEC 62631-3-1
Electric strength	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	225 / -	V	IEC 60112
Relative permittivity (100Hz)	3.8 / 10	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.5 / 4.1	-	IEC 62631-2-1
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Humidity absorption	2.35 / *	%	Sim. to ISO 62
Density	1430 / -	kg/m ³	ISO 1183

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