

Stanyl[®] TE351

PA46 FR(17)

Flame Retardant, Heat Stabilized

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	3000 / 1200	MPa	ISO 527-1/-2
Yield stress	60 / 45	MPa	ISO 527-1/-2
Nominal strain at break	20 / >50	%	ISO 527-1/-2
Flexural modulus	2500 / -	MPa	ISO 178
Charpy impact strength (+23°C)	85 / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	85 / 95	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / 14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5 / 5	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	8 / 14	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	5 / 5	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	160 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.9 / *	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 / *	-	-

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Property Data

Stanyl® TE351

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
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 / *	–	–
Relative Temperature Index – electrical	65	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B
<i>ELECTRICAL PROPERTIES</i>	<i>DRY / COND</i>		
Volume resistivity	>1E13 / 2E10	Ohm*m	IEC 62631-3-1
Electric strength	25 / 20	kV/mm	IEC 60243-1
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1370 / –	kg/m³	ISO 1183

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