

TECHNICAL DATA SHEET

Stanyl® TE351

Envalior
PA46 FR(17)

Processing

Injection molding

Lubricants, Release agent

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Additives

Product Text

Product Information

Flame Retardant, Heat Stabilized

ISO 1043 PA46 FR(17)

Mechanical Properties	Value	Unit	Standard
Tensile modulus	3000	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	4	%	ISO 527
Nominal strain at break	20	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	85	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	8	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	5	kJ/m ²	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	295	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	75	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	160	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	
Yellow card available	yes		

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Thermal Properties	Value	Unit	Standard
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3	mm	
Yellow card available	yes		
Electrical Properties	Value	Unit	Standard
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	25	kV/mm	IEC 60243-1
Other Properties	Value	Unit	Standard
Water absorption	7.5	%	Sim. to ISO 62
Humidity absorption	2	%	Sim. to ISO 62
Density	1370	kg/m ³	ISO 1183

Processing Information

Injection molding

Injection Molding Recommendations

Hot runner recommendations for molding high heat performance Engineering Materials

Steel recommendations for molds screws and barrels

Supporting document for Stanyl quality processing

Trouble shooting guideline for injection molding