Stanyl® TW341

Property Data

PA46-unfilled
Heat Stabilized, Lubricated

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES	dry / cond		
Molding shrinkage (parallel)	**2 / ***	%	ISO 294-4
Molding shrinkage (normal)	**2 / ***	%	ISO 294-4
MECHANICAL PROPERTIES	dry / cond		
Tensile modulus	**3300 / 1000**	MPa	ISO 527-1/-2
Tensile modulus (120°C)	**800**	MPa	ISO 527-1/-2
Tensile modulus (160°C)	**650**	MPa	ISO 527-1/-2
Yield stress	**100 / 55**	MPa	ISO 527-1/-2
Yield stress (120°C)	**50**	MPa	ISO 527-1/-2
Yield stress (160°C)	**40**	MPa	ISO 527-1/-2
Nominal strain at break	**40 / >50**	%	ISO 527-1/-2
Nominal strain at break (120°C)	**>50**	%	ISO 527-1/-2
Nominal strain at break (160°C)	**>50**	%	ISO 527-1/-2
Flexural modulus	**3000 / 900**	MPa	ISO 178
Flexural modulus (120°C)	**800**	MPa	ISO 178
Flexural modulus (160°C)	**600**	MPa	ISO 178
Charpy impact strength (+23°C)	**N / N**	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	**N / N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	**12 / 45**	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	**9 / 12**	kJ/m²	ISO 179/1eA
Izod notched impact strength (23°C)	**10 / 40**	kJ/m²	ISO 180/1A
Izod notched impact strength (-40°C)	**9 / 12**	kJ/m²	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)	**190 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	**0.85 / ***	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	**1.1 / ***	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	**V-2 / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	IEC 60695-11-10
Burning Behav. at thickness h	**V-2 / ***	class	IEC 60695-11-10
Thickness tested	**0.75 / ***	mm	IEC 60695-11-10
Thermal Index 5000 hrs	**152**	°C	IEC 60216/ISO 527-1/-2
ELECTRICAL PROPERTIES	dry / cond		
Volume resistivity	**1E13 / 1E7**	Ohm*m	IEC 60093
Electric strength	**25 / 15**	kV/mm	IEC 60243-1
Comparative tracking index	**400 / 400**	-	IEC 60112

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OTHER PROPERTIES	dry / cond		
Humidity absorption	**3.7 / ***	%	Sim. to ISO 62
Density	**1180 / -**	kg/m³	ISO 1183