DSM Engineering Plastics - Property Data

Stanyl® TE350

PA46-unfilled
Heat Stabilized, Flame Retardant

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	**3600 / 1400**	MPa	ISO 527-1/-2
Yield stress	**85 / 50**	MPa	ISO 527-1/-2
Nominal strain at break	**20 / >50**	%	ISO 527-1/-2
Charpy impact strength (+23°C)	**100 / N**	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	**100 / 125**	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	**6 / 14**	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	**4 / 4**	kJ/m²	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 thickness h	**V-0 / ***	class	IEC 60695-11-10
Thickness tested	**0.75 / ***	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES	dry / cond		
Volume resistivity	**1E13 / 1E7**	Ohm*m	IEC 60093
Electric strength	**30 / 25**	kV/mm	IEC 60243-1
Comparative tracking index	**325 / 325**	-	IEC 60112
OTHER PROPERTIES	dry / cond		
Humidity absorption	**2.6 / ***	%	Sim. to ISO 62
Density	**1380 / -**	kg/m³	ISO 1183

02.04.2004