

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/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	100 / 125	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / 4	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 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/m ³	ISO 1183

DSM Product

Astonishing Stanyl®

