Stanyl®

Stanyl® TW363

PA46-I

Heat Stabilized, Impact Modified

Print Date: 2017-11-03

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	1850 / 600	MPa	ISO 527-1/-2
Tensile modulus (120°C)	400	MPa	ISO 527-1/-2
Tensile modulus (160°C)	350	MPa	ISO 527-1/-2
Yield stress	60 / 45	MPa	ISO 527-1/-2
Yield stress (120°C)	35	MPa	ISO 527-1/-2
Yield stress (160°C)	30	MPa	ISO 527-1/-2
Nominal strain at break	>50 / >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	1800 / 550	MPa	ISO 178
Flexural modulus (120°C)	400	MPa	ISO 178
Flexural modulus (160°C)	350	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)	75 / 125	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	26 / 30	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	80 / 125	kJ/m²	ISO 180/1A
Izod notched impact strength (-40°C)	40 / 40	kJ/m²	ISO 180/1A

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Properties	Typical Data	Unit	Test Method
Thermal properties	dry / cond		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	90 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	200 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.6 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.8 / *	E-4/°C	ISO 11359-1/-2
Thermal Index 5000 hrs	135	°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	475 / -	V	IEC 60112
Relative permittivity (100Hz)	3.6 / 14	-	IEC 60250
Relative permittivity (1 MHz)	3.2 / 4	-	IEC 60250
Other properties	dry / cond		
Humidity absorption	2.95 / *	%	Sim. to ISO 62
Density	1100 / -	kg/m³	ISO 1183