

Stanyl® Diablo OCD2305 BM

PA46-GF25

Glass Reinforced, Heat Stabilized, Blow Molding Grade

Print Date: 2019-10-11

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
Tensile modulus	8500 / 3900	MPa	ISO 527-1/-2
Tensile modulus (180°C)	2600	MPa	ISO 527-1/-2
Tensile modulus (200°C)	2200	MPa	ISO 527-1/-2
Stress at break	165 / 85	MPa	ISO 527-1/-2
Stress at break (180°C)	65	MPa	ISO 527-1/-2
Stress at break (200°C)	55	MPa	ISO 527-1/-2
Strain at break	3.4 / 13	%	ISO 527-1/-2
Strain at break (180°C)	18	%	ISO 527-1/-2
Strain at break (200°C)	19	%	ISO 527-1/-2
Flexural modulus	9000 / 3700	MPa	ISO 178
Flexural strength	250 / 120	MPa	ISO 178
Charpy notched impact strength (+23°C)	13 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	7 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	284 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	240 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	275 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.25 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2
Electrical properties			
	dry / cond		
Volume resistivity	>1E13 / -	Ohm*m	IEC 60093

Property Data

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Properties	Typical Data	Unit	Test Method
Other properties	dry / cond		
Density	1330 / -	kg/m ³	ISO 1183