

DSM Engineering Plastics - Property Data

Stanyl® 46HF5041LW

PA46-GF40

40% Glass Reinforced, Heat Stabilized, Flame Retardant, High Flow, Low Warpage

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
	dry / cond		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	dry / cond		
Tensile modulus	16000 / -	MPa	ISO 527-1/-2
Stress at break	150 / -	MPa	ISO 527-1/-2
Strain at break	1.3 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	25 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / -	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)	270 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Relative Temperature Index - electrical	140	°C	UL746B
RTI electrical (Thickness (1) tested)	1.5	mm	UL746B
OTHER PROPERTIES			
	dry / cond		
Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1870 / -	kg/m ³	ISO 1183

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DSM Product

Astonishing Stanyl®

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