

# DSM Engineering Plastics - Property Data

## Stanyl® 46HF4130

PA46-GF30

30% Glass Reinforced, Heat Stabilized, High Flow

Properties	Typical Data	Unit	Test Method
<b>RHEOLOGICAL PROPERTIES</b>			
	dry / cond		
Molding shrinkage (parallel)	<b>0.5 / *</b>	%	ISO 294-4
Molding shrinkage (normal)	<b>1.3 / *</b>	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	dry / cond		
Tensile modulus	<b>10000 / 6000</b>	MPa	ISO 527-1/-2
Stress at break	<b>210 / 115</b>	MPa	ISO 527-1/-2
Strain at break	<b>3 / 6</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>60 / 90</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>60 / 60</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>13 / 17</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>13 / 13</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	dry / cond		
Melting temperature (10°C/min)	<b>295 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>290 / *</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>0.2 / *</b>	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>0.8 / *</b>	E-4/°C	ISO 11359-1/-2
Burning Behav. at thickness h	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>0.75 / *</b>	mm	IEC 60695-11-10
UL recognition	<b>UL / *</b>	-	-
Relative Temperature Index - electrical	<b>140</b>	°C	UL746B
RTI electrical (Thickness (1) tested)	<b>3</b>	mm	UL746B
<b>OTHER PROPERTIES</b>			
	dry / cond		
Density	<b>1410 / -</b>	kg/m <sup>3</sup>	ISO 1183

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DSM Product

Astonishing Stanyl®

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