

# Durethan® B31SH2.0

## PA6

Injection Molding, Unreinforced, Heat Stabilized

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>RHEOLOGICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	1.4 / *	%	ISO 294-4
Molding shrinkage (normal)	1.4 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Tensile modulus	3400 / -	MPa	ISO 527-1/-2
Yield stress	70 / -	MPa	ISO 527-1/-2
Yield strain	2.5 / -	%	ISO 527-1/-2
Flexural modulus	2900 / -	MPa	ISO 178
Flexural strength	115 / -	MPa	ISO 178
<b>THERMAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60 / *	°C	ISO 75-1/-2
<b>OTHER PROPERTIES</b>			
	<i>DRY / COND</i>		
Density	1140 / -	kg/m³	ISO 1183
<b>PROCESSING RECOMMENDATIONS</b>			
	<i>VALUE</i>		
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2-6	h	
Residual moisture content	0.03-0.12	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	260-280	°C	

*Property Data*

# *Durethan<sup>®</sup> B31SH2.0*

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Mold temperature	80–100	°C	