

# Durethan<sup>®</sup> B31SH2.0

## PA6

Injection Molding, Unreinforced, Heat Stabilized

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>	<b>DRY / COND</b>		
Molding shrinkage (parallel)	1.4 / *	%	ISO 294-4
Molding shrinkage (normal)	1.4 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>	<b>DRY / COND</b>		
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>	<b>DRY / COND</b>		
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>	<b>DRY / COND</b>		
Density	1140 / –	kg/m³	ISO 1183
<b>PROCESSING RECOMMENDATIONS</b>	<b>VALUE</b>		
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	
Mold temperature	80-100	°C	

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