

# Durethan<sup>®</sup> AM430H2.0

## PA66–MX30

30% Mineral Reinforced, Injection Molding, Heat Stabilized, Low Warpage

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>RHEOLOGICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	1 / *	%	ISO 294–4
Molding shrinkage (normal)	1.2 / *	%	ISO 294–4
<b><i>MECHANICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Tensile modulus	4800 / 2000	MPa	ISO 527–1/–2
Stress at break	80 / 40	MPa	ISO 527–1/–2
Strain at break	4 / 50	%	ISO 527–1/–2
Flexural modulus	4900 / 2100	MPa	ISO 178
Flexural strength	140 / 60	MPa	ISO 178
Charpy impact strength (+23°C)	70 / 120	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	60 / –	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / <10	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / <10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / <10	kJ/m <sup>2</sup>	ISO 180/1A
<b><i>THERMAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	262 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	90 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.6 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.8 / *	E–4/°C	ISO 11359–1/–2
<b><i>OTHER PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Density	1390 / –	kg/m <sup>3</sup>	ISO 1183

## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>PROCESSING RECOMMENDATIONS</i></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)	280–300	°C	
Mold temperature	80–120	°C	