

# DSM Engineering Plastics - Property Data

## Stamylan® UH 210

PE-unfilled

Properties	Typical Data	Unit	Test Method
<b>RHEOLOGICAL PROPERTIES</b>			
Elongational Stress F(150/10)	<b>0.23</b>	MPa	ISO 11542-2/A
<b>MECHANICAL PROPERTIES</b>			
Tensile modulus	<b>650</b>	MPa	ISO 527-1/-2
Yield stress	<b>19</b>	MPa	ISO 527-1/-2
Yield strain	<b>11</b>	%	ISO 527-1/-2
Nominal strain at break	<b>&gt;50</b>	%	ISO 527-1/-2
Abrasion resistance	<b>100</b>	%	DIN 16972
Charpy double-notched impact strength (23°C)	<b>190</b>	kJ/m <sup>2</sup>	ISO 11542-2/B
<b>THERMAL PROPERTIES</b>			
Melting temperature (10°C/min)	<b>133</b>	°C	ISO 11357-1/-3
<b>OTHER PROPERTIES</b>			
Density	<b>930</b>	kg/m <sup>3</sup>	ISO 1183
Apparent density	<b>480</b>	kg/m <sup>3</sup>	ISO 60
Average particle size	<b>150</b>	m-6	-
<b>MATERIAL SPECIFIC PROPERTIES</b>			
Viscosity number	<b>2200</b>	cm <sup>3</sup> /g	ISO 307, 1157, 1628
Average molecular weight	<b>4.60E6</b>	g/mol	-

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