

DSM Engineering Plastics - Property Data

Stamylan® UH 034

PE-unfilled

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Elongational Stress F(150/10)	0.13	MPa	ISO 11542-2/A
MECHANICAL PROPERTIES			
Tensile modulus	700	MPa	ISO 527-1/-2
Yield stress	20	MPa	ISO 527-1/-2
Yield strain	10	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Abrasion resistance	110	%	DIN 16972
Charpy double-notched impact strength (23°C)	220	kJ/m ²	ISO 11542-2/B
THERMAL PROPERTIES			
Melting temperature (10°C/min)	133	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	935	kg/m ³	ISO 1183
Apparent density	480	kg/m ³	ISO 60
Average particle size	150	m-6	-
MATERIAL SPECIFIC PROPERTIES			
Viscosity number	1750	cm ³ /g	ISO 307, 1157, 1628
Average molecular weight	3.30E6	g/mol	-

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