DSM Engineering Plastics - Property Data

Stamylan® UH 210

PE-unfilled

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Elongational Stress F(150/10)	**0.23**	MPa	ISO 11542-2/A
MECHANICAL PROPERTIES			
Tensile modulus	**650**	MPa	ISO 527-1/-2
Yield stress	**19**	MPa	ISO 527-1/-2
Yield strain	**11**	%	ISO 527-1/-2
Nominal strain at break	**>50**	%	ISO 527-1/-2
Abrasion resistance	**100**	%	DIN 16972
Charpy double-notched impact strength (23°C)	**190**	kJ/m²	ISO 11542-2/B
THERMAL PROPERTIES			
Melting temperature (10°C/min)	**133**	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	**930**	kg/m³	ISO 1183
Apparent density	**480**	kg/m³	ISO 60
Average particle size	**150**	m-6	-
MATERIAL SPECIFIC PROPERTIES			
Viscosity number	**2200**	cm³/g	ISO 307, 1157, 1628
Average molecular weight	**4.60E6**	g/mol	-