

DSM Engineering Plastics - Property Data

Arnitel® PL461

TPE-unfilled

46 Shore D, Injection Grade

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	30	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
Shore D Hardness (3s)	46	-	ISO 868
Tensile modulus	165	MPa	ISO 527-1/-2
Stress at break	22.4	MPa	ISO 527-1/-2
Nominal strain at break	400	%	ISO 527-1/-2
Stress at 5% strain	5.3	MPa	ISO 527-1/-2
Stress at 10% strain	8.4	MPa	ISO 527-1/-2
Stress at 50% strain	12.4	MPa	ISO 527-1/-2
Stress at 100% strain	13.7	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	N	kJ/m ²	ISO 179/1eA
Izod notched impact strength (23°C)	N	kJ/m ²	ISO 180/1A
Izod notched impact strength (-30°C)	N	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	65	°C	ISO 75-1/-2
OTHER PROPERTIES			
Density	1210	kg/m ³	ISO 1183

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 DSM Product

Unlimited.  DSM

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