

DSM Engineering Plastics - Property Data

Arnitel® PL420-H

TPE-unfilled

40 Shore D, Injection Grade

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	20	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
Shore D Hardness (3s)	40	-	ISO 868
Tensile modulus	100	MPa	ISO 527-1/-2
Stress at break	17.5	MPa	ISO 527-1/-2
Nominal strain at break	400	%	ISO 527-1/-2
Stress at 5% strain	3.1	MPa	ISO 527-1/-2
Stress at 10% strain	5.3	MPa	ISO 527-1/-2
Stress at 50% strain	9.1	MPa	ISO 527-1/-2
Stress at 100% strain	10.8	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
Burning Behav. at 1.6 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
OTHER PROPERTIES			
Density	1180	kg/m ³	ISO 1183

DSM Product

Unlimited. **DSM**

