

DSM Engineering Plastics - Property Data

Arnitel® PL471

TPE-unfilled

45 Shore D, Injection Grade

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	27	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
Shore D Hardness (3s)	45	-	ISO 868
Tensile modulus	240	MPa	ISO 527-1/-2
Stress at break	21.5	MPa	ISO 527-1/-2
Nominal strain at break	375	%	ISO 527-1/-2
Stress at 5% strain	8.7	MPa	ISO 527-1/-2
Stress at 10% strain	11.3	MPa	ISO 527-1/-2
Stress at 50% strain	14	MPa	ISO 527-1/-2
Stress at 100% strain	14.6	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)	224	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1200	kg/m ³	ISO 1183

