

DSM Engineering Plastics - Property Data

Arnitel® PL650

TPE-unfilled

63 Shore D, Injection Molding 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)	63	-	ISO 868
Tensile modulus	570	MPa	ISO 527-1/-2
Stress at break	34.4	MPa	ISO 527-1/-2
Nominal strain at break	350	%	ISO 527-1/-2
Stress at 5% strain	17.1	MPa	ISO 527-1/-2
Stress at 10% strain	22.9	MPa	ISO 527-1/-2
Stress at 50% strain	23.2	MPa	ISO 527-1/-2
Stress at 100% strain	23.2	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	23	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	7	kJ/m ²	ISO 179/1eA
Izod notched impact strength (23°C)	21	kJ/m ²	ISO 180/1A
Tear strength Graves (without nick)	150	kN/m	ISO 34
THERMAL PROPERTIES			
Melting temperature (10°C/min)	221	°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	1260	kg/m ³	ISO 1183

