

DSM Engineering Plastics - Property Data

Arnitel® UM551

TPE-unfilled

55 Shore D

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	16	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
Tensile modulus	200	MPa	ISO 527-1/-2
Stress at 10% strain	13.4	MPa	ISO 527-1/-2
Stress at 100% strain	24	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting temperature (10°C/min)	195	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	80	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	85	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	1.6	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES			
Comparative tracking index	600	-	IEC 60112
OTHER PROPERTIES			
Density	1260	kg/m ³	ISO 1183
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.25	%	Sim. to ISO 62

DSM Product

Unlimited. **DSM**

