

DSM Engineering Plastics - Property Data

Arnitel® EB500 (Provisional)

TPE-unfilled

50 Shore D, Blow Molding Grade

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	4	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133
MECHANICAL PROPERTIES			
Shore D Hardness (3s)	50	-	ISO 868
Tensile modulus	225	MPa	ISO 527-1/-2
Stress at break	26.5	MPa	ISO 527-1/-2
Stress at 5% strain	9	MPa	ISO 527-1/-2
Stress at 10% strain	12.6	MPa	ISO 527-1/-2
Stress at 50% strain	19.5	MPa	ISO 527-1/-2
Stress at 100% strain	23.5	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
THERMAL PROPERTIES			
Melting temperature (10°C/min)	215	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1180	kg/m ³	ISO 1183
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62

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DSM Product

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