

# DSM Engineering Plastics - Property Data

## Arnitel® PB581-H

TPE-unfilled

56 Shore D

Blow Molding

Properties	Typical Data	Unit	Test Method
<b>RHEOLOGICAL PROPERTIES</b>			
Melt volume-flow rate	6	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133
<b>MECHANICAL PROPERTIES</b>			
Shore D Hardness (3s)	56	-	ISO 868
Tensile modulus	280	MPa	ISO 527-1/-2
Stress at break	25.5	MPa	ISO 527-1/-2
Nominal strain at break	185	%	ISO 527-1/-2
Stress at 5% strain	8.5	MPa	ISO 527-1/-2
Stress at 10% strain	12.7	MPa	ISO 527-1/-2
Stress at 50% strain	17.8	MPa	ISO 527-1/-2
Stress at 100% strain	20	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	14	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (23°C)	N	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength (-30°C)	12	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b>			
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	100	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	105	°C	ISO 306
Vicat softening temperature (50°C/h 10N)	205	°C	ISO 306
<b>OTHER PROPERTIES</b>			
Density	1230	kg/m <sup>3</sup>	ISO 1183

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