

# DSM Engineering Plastics - Property Data

## Arnitel® UM552

TPE-unfilled

55 Shore D

Properties	Typical Data	Unit	Test Method
<b>MECHANICAL PROPERTIES</b>			
Tensile modulus	<b>250</b>	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>6</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
Melting temperature (10°C/min)	<b>195</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	<b>80</b>	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	<b>85</b>	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	<b>1.6</b>	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 mm nom. thickn.	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	IEC 60695-11-10
<b>ELECTRICAL PROPERTIES</b>			
Comparative tracking index	<b>600</b>	-	IEC 60112
<b>OTHER PROPERTIES</b>			
Density	<b>1260</b>	kg/m <sup>3</sup>	ISO 1183
Water absorption	<b>0.6</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.25</b>	%	Sim. to ISO 62

01.04.2004

**DSM**Product

Unlimited. **DSM**

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information.