

Arnitel® ID 2045

Thermoplastic Elastomer

DSM Engineering Plastics

Message:

Arnitel®ID 2045 is a thermoplastic elastomer (TPE) material. This product is available in North America, Europe or Asia Pacific region. The processing method is: 3d printing, fused filament fabrication (fff). Arnitel®The main features of ID 2045 are: environmental protection/green.

General Information			
Features	Updatable resources		
Processing Method	3D Printing, Fused Filament Fabrication (FFF)		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.040	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	34		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3D Printed)	29.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
3D Printed ²	8.00	MPa	ISO 527-2
3D Printed ³	7.60	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Fracture, 3D Printed ⁴	350	%	ISO 527-2
Fracture, 3D Printed ⁵	390	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-35.0	°C	ISO 11357-2
Vicat Softening Temperature	90.0	°C	ISO 306/A50
Melting Temperature ⁶	158	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Dielectric Strength	20	kV/mm	IEC 60243-1
Additional Information			

The mechanical data is tested on printed tensile bars, printed in two directions: 0°-90° and 45°-45°

NOTE	
1.	45°-45°
2.	0°-90°
3.	45°-45°
4.	0°-90°
5.	45°-45°
6.	10°C/min

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