

Technical Data Sheet



TRINSEO[™]

ADWIRE[®] *ABS MEDICAL* *made from Trinseo MAGNUM*[™] 8391

The **AdWire**[®] **PRO ABS MEDICAL** is a product developed directly from one of the most popular grades of the medical industry, Trinseo MAGNUM[™] 8391. **AdWire**[®] **ABS MEDICAL** is a filament that has undergone biocompatibility testing based on ISO 10993 (Biological Evaluation of Medical Devices) and is suitable for use in approved medical applications. It also combines an excellent glossy appearance and medium impact performance.

Physical

Measurement	Method & Conditions	Metric Value
Density	ISO 1183/B	1,05 g/cm ³
Melt Mass-Flow Rate (MFR) (220°C/10kg)	ISO 1133	28g/10min

Thermal properties

Measurement	Method & Conditions	Metric Value
Viscat softening temperature	ISO 306/B50	95°C
Glass transition Temperature T ^g	ISO 11357-3	103.3°C

Mechanical properties

Measurement	Method & Conditions	Metric Value
Tensile strength at break	DIN EN ISO 527-1	40.9MPa
Tensile modulus	DIN EN ISO 527-1	2200Mpa
Elongation at break	DIN EN ISO 527-1	3.5%
Flexural modulus	DIN EN ISO 178	1690MPa
Charpy – Impact strength (unnotched)	ISO 179 1eU (23°C)	9.75kJ/m ²
Hardness	73 Shore D	73 Shore D

Handling – storage

Store the product in original packaging away from moisture and heat. Under these conditions, the material will maintain its technical properties for 1 year. Once the material passes the 1 year limit, it will be necessary to perform testing of the specified data to restart the shelf life period.

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