

# Technical Data Sheet


**TRINSEO™**

## ADWIRE® ABS AUTO made from Trinseo MAGNUM™ 3904

The AdWire® PRO ABS AUTO is a product developed directly from one of the most popular grades of the automobile industry, Trinseo MAGNUM™ 3904. AdWire® ABS AUTO is a filament with super-high impact properties which is used in a wide range of technical applications, specially transportation and protective covers.

### Physical

Measurement	Method & Conditions	Metric Value
Density	ISO 1183/B	1,05 g/cm <sup>3</sup>
Melt Mass-Flow Rate (MFR) (220°C/10kg)	ISO 1133	4,5g/10 min
Melt Volume-Flow Rate (MFR) (220°C/10kg)	ISO 1133	4,7g/10 min

### Thermal properties

Measurement	Method & Conditions	Metric Value
Melting point T <sup>m</sup>	ISO 11357-3	± 2°C
Glass transition Temperature T <sup>g</sup>	ISO 11357-3	± 2°C

### Mechanical properties

Measurement	Method & Conditions	Metric Value
Tensile strength at break	ISO 527-2:93-1B	20 ± 2 MPa
Tensile modulus	ISO 527-2:93-1B	1150 ± 100 MPa
Elongation at break	ISO 527-2:93-1B	5 ± 1 %
Flexural modulus	ISO 178 (23°C)	1130 ± 100 MPa
Charpy – Impact strength (unnotched)	ISO 179 1eU (23°C)	25 ± 2 kJ/m <sup>2</sup>

### 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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