

Technical Data Sheet

ADWIRE® ABS FDA

made from Trinseo MAGNUM™ 3453

The AdWire® PRO ABS FDA is a product developed directly from one of the most popular grades for general purposes, Trinseo MAGNUM™ 3453. AdWire® ABS FDA has food approval by the Food and Drugs Administration and is used in a wide range of applications, specially consumer goods and toys. The product combines a medium to high impact performance with good surface quality.

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	15g/10 min
Melt Mass-Flow Rate (MFR) (230°C/3,8kg)	ISO 1133	5,0g/10 min

Thermal properties

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

Mechanical properties

Measurement	Method & Conditions	Metric Value
Tensile strength at break	ISO 527-2:93-1B	34 ± 5 MPa
Tensile modulus	ISO 527-2:93-1B	1900 ± 100 MPa
Elongation at break	ISO 527-2:93-1B	2 ± 1 %
Flexural modulus	ISO 178 (23°C)	1650 ± 150 MPa
Charpy – Impact strength (unnotched)	ISO 179 1eU (23°C)	32 ± 3 kJ/m ²

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.

The information presented in this document is provided in goodwill and represents the best of ADVANC3D Materials' knowledge about the product. It is purely informative. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the goods described or the information provided herein.