

TECHNICAL DATA SHEET

TECHNYL 4EARTH A1E 318 V40 BK H
(Previously TECHNYL AR 318 V40 BLACK)

General

Feature	Heat-aging stabilized	
Polymer type	PA66 (Polyamide 66)	
Processing technology	Extrusion	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Automotive Applications Industrial Applications	Consumer good application
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66-GF40
ISO 16396 designation	PA66,GF40(R100),EH,S14-120

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.45
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.9
Water absorption	24 hr, 23°C	ISO 62	%	0.5 - 0.6
Water absorption, saturation			%	4.1
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.3 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.75 - 0.85

TECHNICAL DATA SHEET

TECHNYL 4EARTH A1E 318 V40 BK H

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	13000 / -
Stress at break		ISO 527-1/-2	MPa	210 / -
Strain at break		ISO 527-1/-2	%	2.6 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	12000 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	315 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	70 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	13 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	60 / -

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	259
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	248

*: conditioned according to ISO 1110

Disclaimer

The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.