

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

Condition	Standard	Unit	Value
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Physical properties

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

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Mechanical properties				
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

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