

TECHNICAL DATA SHEET

DOMONYL 1820RMC40U3 BK-4M-Z

Polyamide 6, 40% glass fiber and mineral filler, UV resistant, for injection moulding. For America availability only.

General

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA6	
Feature	weather resistant	
Colors available	black	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA6-(GF+MD)40
ISO 16396 designation	PA6,(GF+MD)40,MHL1,S14-100

Condition	Standard	Unit	Value
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Physical properties

Density		ISO 1183	g/cm ³	1.45
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.1 - 0.3
Molding shrinkage, normal		ISO 294-4, 2577	%	0.6 - 0.8

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	11000 / 5700
Stress at break		ISO 527-1/-2	MPa	130 / 70
Strain at break		ISO 527-1/-2	%	2 / 6
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	10000 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	200 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	45 / 51
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	6 / 11

*: **conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	222
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	220
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	210

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %

Injection notes

The material is supplied in airtight bags, ready for use.,In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C.,Recommended time 2-4h.