

**TECHNYL® 4EARTH® A2E 216 T20 BK**

DOMO Engineering Plastics - Polyamide 66

## General Information

**Product Description**

Recycled polyamide 66, 20% mineral filler, for injection moulding, black. For America availability only.

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Mineral, 20% Filler by Weight</li> </ul>
Recycled Content	<ul style="list-style-type: none"> <li>Yes, 50%</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>EC 1907/2006 (REACH)</li> </ul>
RoHS Compliance	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>
ISO Designation (ISO 16396)	<ul style="list-style-type: none"> <li>PA66, MD20(R50),M,S14-030</li> </ul>
Resin ID (ISO 1043)	<ul style="list-style-type: none"> <li>PA66(REC)-MD20</li> </ul>

 Properties <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2 to 1.4	--	%	
Flow	1.0 to 1.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	406000	145000	psi	ISO 527-1
Tensile Stress (Yield)	--	5080	psi	ISO 527-2
Tensile Stress (Break)	7980	5080	psi	ISO 527-2
Tensile Strain (Yield)	--	55	%	ISO 527-2
Tensile Strain (Break)	5.5	95	%	ISO 527-2
Flexural Modulus	3630	131000	psi	ISO 178
Flexural Stress	13800	5080	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.2	3.6	ft-lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	17	-0.48	ft-lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	408	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	162	--	°F	ISO 75-2/A
Melting Temperature <sup>2</sup>	504	--	°F	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302

## Processing Information

Injection	Dry Unit
Drying Temperature	167 to 185 °F
Drying Time	2.0 to 4.0 hr
Dew Point	< -22 °F
Suggested Max Moisture	0.20 %
Processing (Melt) Temp	518 to 554 °F
Mold Temperature	176 to 212 °F

**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.

