

**TECHNYL® 4EARTH® C2E 216 V20 BK 9039**

DOMO Engineering Plastics - Polyamide 6

## General Information

**Product Description**

\*Previously ECONAMID PLUS 6G20 BK99039

Polyamide 6, 20% glass fiber reinforced, for injection moulding, black

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Recycled Content	• Yes, 50%
Uses	• Consumer Applications • Industrial Applications
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding
ISO Designation (ISO 16396)	• PA6,GF20(R>50),M,S14-070
Resin ID (ISO 1043)	• PA6(REC)-GF20

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm <sup>3</sup>	ISO 1183
Viscosity Number (96% H <sub>2</sub> SO <sub>4</sub> (Sulphuric Acid))	135	cm <sup>3</sup> /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	986000	psi	ISO 527-1
Tensile Stress (Break)	18900	psi	ISO 527-2
Flexural Modulus	885000	psi	ISO 178
Flexural Stress	27600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.6	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	14	ft·lb/in <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength (73°F)	2.1	ft·lb/in <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	12	ft·lb/in <sup>2</sup>	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Melting Temperature <sup>2</sup>	430	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	ohms·m	IEC 62631-3-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	in/min	FMVSS 302
Flame Rating (0.030 in)	HB		UL 94

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	167 to 185	°F
Drying Time	2.0 to 4.0	hr
Dew Point	< -22	°F
Processing (Melt) Temp	464 to 500	°F
Mold Temperature	176 to 194	°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.

