

**TECHNYL® A 219M BK B**

DOMO Engineering Plastics - Polyamide 66

**General Information**
**Product Description**

Polyamide 66, heat-aging stabilized, impact modified, for injection moulding, black

**General**

Material Status	• Commercial: Active
Availability	• Latin America • North America
Additive	• Heat Stabilizer • Impact Modifier
Features	• Heat Aging Resistant • Heat Stabilized • Impact Modified
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding
ISO Designation (ISO 16396)	• PA66,MPH,S14-030
Resin ID (ISO 1043)	• PA66-I

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.12	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	> 1.5	--	%	
Flow	> 0.91	--	%	
<b>Mechanical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	464000	174000	psi	ISO 527-1
Tensile Stress (Yield)	11300	6670	psi	ISO 527-2
Tensile Stress (Break)	10400	7110	psi	ISO 527-2
Tensile Strain (Yield)	4.9	23	%	ISO 527-2
Tensile Strain (Break)	14	170	%	ISO 527-2
Flexural Modulus	377000	--	psi	ISO 178
Flexural Stress	16000	--	psi	ISO 178
<b>Impact</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	1.9	2.4	ft·lb/in <sup>2</sup>	
73°F	2.4	31	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	No Break	No Break		
73°F	No Break	No Break		
<b>Thermal</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	428	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	165	--	°F	ISO 75-2/A
Melting Temperature <sup>2</sup>	504	--	°F	ISO 11357-3
<b>Flammability</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302

**Processing Information**

<b>Injection</b>	<b>Dry Unit</b>
Drying Temperature	167 to 185 °F
Drying Time	2.0 to 4.0 hr
Dew Point	< -22 °F
Suggested Max Moisture	0.20 %

**Injection Notes**


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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.

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### Notes

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<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min

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