

**DOMONYL® 1850R35H1 BK-600R-1-1**

DOMO Engineering Plastics - Polyamide 6

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

Polyamide 6, 35% glass fiber reinforced, heat stabilized, for injection moulding, custom black. For America availability only.

**General**

Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Aging Resistant • Heat Stabilized
Uses	• Automotive Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding
ISO Designation (ISO 16396)	• PA6,GF35,M1,S14-110
Resin ID (ISO 1043)	• PA6-GF35

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

Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70 to 0.90	--	%	
Flow	0.10 to 0.30	--	%	
Water Absorption (24 hr, 73°F)	1.4 to 1.5	--	%	ISO 62
Water Absorption (Saturation, 73°F)	5.9	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.8 to 2.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.60E+6	885000	psi	ISO 527-1
Tensile Stress (Break)	26100	14500	psi	ISO 527-2
Tensile Strain (Break)	2.6	5.8	%	ISO 527-2
Flexural Modulus	1.48E+6	870000	psi	ISO 178
Flexural Stress	39200	14500	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.5	10	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	36	38	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	428	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	410	--	°F	ISO 75-2/A
Melting Temperature <sup>2</sup>	432	--	°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	140 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.

---

**Notes**

---

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

<sup>2</sup> 10°C/min

---

