

DOMONYL® 2150H BK-1/X

DOMO Engineering Plastics - Polyamide 66

General Information
Product Description

Polyamide 66, lubricated, heat stabilized, for injection moulding, black. For America availability only.

General

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

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60 to 0.70	--	%	
Flow	1.2 to 1.3	--	%	
Water Absorption (24 hr, 73°F)	1.2 to 1.3	--	%	ISO 62
Water Absorption (Saturation, 73°F)	8.3	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	3.1 to 3.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	537000	203000	psi	ISO 527-1
Tensile Stress (Break)	7250	6530	psi	ISO 527-2
Tensile Strain (Break)	1.5	79	%	ISO 527-2
Flexural Modulus	435000	145000	psi	ISO 178
Flexural Stress	18100	6530	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	0.95	4.5	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	13	-0.48	ft·lb/in ²	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)	176	--	°F	ISO 75-2/A
Melting Temperature ²	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	176 °F
Suggested Max Moisture	0.20 %
Rear Temperature	509 to 527 °F
Middle Temperature	518 to 536 °F
Front Temperature	536 to 545 °F
Mold Temperature	140 to 176 °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

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min

