DOMONYL® 2125N18 BK-1/xPI

DOMO Engineering Plastics - *Polyamide 66*

General Information

Product Description		
Polyamide 66, nucleated, for injection moulding, black. For America availability only.		
General		
Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Features	• Fast Molding Cycle	
Agency Ratings	• EC 1907/2006 (REACH)	
RoHS Compliance	• RoHS Compliant	
Processing Method	• Injection Molding	
ISO Designation (ISO 16396)	• PA66,M,S14-030	
Resin ID (ISO 1043)	• PA66	

Properties [1]

Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.14	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2 to 1.4	--	%	
Flow	1.0 to 1.2	--	%	
Water Absorption (24 hr, 73°F)	1.3	--	%	ISO 62
Water Absorption (Saturation, 73°F)	8.3	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	3.1	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	464000	174000	psi	ISO 527-1
Tensile Stress (Break)	10900	5800	psi	ISO 527-2
Tensile Strain (Break)	8.8	150	%	ISO 527-2
Flexural Modulus	392000	138000	psi	ISO 178
Flexural Stress	16000	5800	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.4	7.1	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	45	-0.48	ft·lb/in²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	392	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	149	--	°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
Processing (Melt) Temp	509 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