DOMONYL® 2120R33 BK-1

DOMO Engineering Plastics - *Polyamide 66*

General Information

Product Description	
Polyamide 66, reinforced with 33% glass fiber reinforced, for injection moulding, black. For America availability only.	
General	
Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding
ISO Designation (ISO 16396)	• PA66,GF33,M,S14-100
Resin ID (ISO 1043)	• PA66-GF33

Properties [1]

Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.39	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70 to 0.90	--	%	
Flow	0.20 to 0.40	--	%	
Water Absorption (24 hr, 73°F)	0.75	--	%	ISO 62
Water Absorption (Saturation, 73°F)	5.0	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.0 to 2.2	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.45E+6	856000	psi	ISO 527-1
Tensile Stress (Break)	21800	12300	psi	ISO 527-2
Tensile Strain (Break)	2.3	8.0	%	ISO 527-2
Flexural Modulus	1.31E+6	812000	psi	ISO 178
Flexural Stress	34800	21800	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	2.9	5.2	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	21	31	ft·lb/in²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	496	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	471	--	°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	518 to 536	°F
Middle Temperature	527 to 545	°F
Front Temperature	536 to 554	°F
Mold Temperature	158 to 212	°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.