DOMONYL® 1850R15N3

DOMO Engineering Plastics - *Polyamide 6*

General Information

Product Description			
Polyamide 6, 15% glass fiber reinforced, nucleated, for injection moulding. For America availability only.			
General			
Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Features	• Fast Molding Cycle	• Good Stiffness	• Good Strength
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA6,GF15,M,S14-060		
Resin ID (ISO 1043)	• PA6-GF15		

Properties [1]

Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.24	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50 to 0.70	--	%	
Flow	0.20 to 0.30	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	986000	493000	psi	ISO 527-1
Tensile Stress (Yield)	0.00	11500	psi	ISO 527-2
Tensile Stress (Break)	18900	11000	psi	ISO 527-2
Tensile Strain (Yield)	0.0	9.4	%	ISO 527-2
Tensile Strain (Break)	2.5	15	%	ISO 527-2
Flexural Modulus	827000	--	psi	ISO 178
Flexural Stress	31900	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	2.9	7.6	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	20	48	ft·lb/in²	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 [2]	430	--	°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	%

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.