

DOMONYL® 1850T3 NC

DOMO Engineering Plastics - Polyamide 6

General Information

Product Description

Polyamide 6, low temperature impact modified, for injection moulding, natural color. For America availability only.

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Features	• High Impact Resistance • Low Temperature Impact Resistance
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding
ISO Designation (ISO 16396)	• PA6,MPH,S14-020
Resin ID (ISO 1043)	• PA6-I

 Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4 to 1.6	--	%	
Flow	1.3 to 1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	290000	87000	psi	ISO 527-1
Tensile Stress (Yield)	6530	3630	psi	ISO 527-2
Tensile Stress (Break)	5800	6530	psi	ISO 527-2
Tensile Strain (Yield)	4.0	25	%	ISO 527-2
Tensile Strain (Break)	45	250	%	ISO 527-2
Flexural Modulus	247000	65300	psi	ISO 178
Flexural Stress	10200	2900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	8.1	8.1	ft·lb/in ²	
73°F	33 ft·lb/in ²	No Break		
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	No Break	No Break		
73°F	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	320	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	131	--	°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	176 °F
Suggested Max Moisture	0.20 %
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

