MARPLEX

IXOM OPERATIONS PTY LTD ACN 600 546 512



ProteQ[™]

POLYPROPYLENE ENGINEERING THERMOPLASTIC

ProteQ[™] IS A REGISTRED TRADEMARK OF MARPLEX AUSTRALIA PTY. LTD.

PROTEQ™ 7008

PROTEQ[™] 7008 is an impact modified polypropylene compound. This grade has been formulated to retain a high resistance to impact at low temperatures combined with good rigidity. The grade is also stabilised to withstand intermittent exposure to UV radiation.

	CONDITIONS	<u>UNITS</u>	<u>TYPICAL</u> VALUES	<u>TESTING</u> METHODS
1. Mechanical Properties				
Notched Izod Impact Strength	12.7 mm x 3.2 mm @ 23℃	J/m	600	ASTM D256
	12.7 mm x 3.2 mm @ -30 ℃	J/m	90	ASTM D256
Tensile Strength	12.7 mm x 3.2 mm @ 50 mm/min	MPa	22	ASTM D638
Flexural Modulus	12.7 mm x 3.2 mm @ 10 mm/min	MPa	1,000	ASTM D790
2. Thermal Properties				
Heat Deflection Temperature	12.7 mm x 3.2 mm @ 0.455 MPa	°C	90	ASTM D648
	12.7 mm x 3.2 mm @ 1.82 MPa	°C	52	ASTM D648
4. Physical Properties				
Melt Flow Rate	230℃, 2.16 kg	g/10 min	5	ASTM D1238
Specific Gravity		-	0.90	ASTM D792
Mould Shrinkage	2.0 - 3.0 mm	%	1.4 - 2.0	ASTM D955
All test results were obtained using uncoloured material.			I.	ssued: May 2016
	1 17057			

Material Safety Data Sheet (MSDS): Code 17957

Ixom Operations Pty Ltd makes no representation with regard to the completeness or accuracy of the information and any recommendations contained in this data sheet, and accepts no responsibility for loss or damage whatsoever resulting from the use of, or reliance upon, the information and any recommendation herein. Ixom Operations Pty Ltd products are sold on standard terms and conditions, a copy of which is available on request.

IXOM OPERATIONS PTY LTD	1 NICHOLSON ST, EAST MELBOURNE, VIC. 3002 AUSTRALIA		
	PH: 1300 550 036 FAX: 1300 550 081	ixom.com	
CUSTOMER SERVICE:	PH: 1300 557 862	marplex.com.au	
MARPLEX AUSTRALIA PTY LTD	165 FITZGERALD RD, LAVERTON NORTH, VIC	C. 3026 AUSTRALIA	
24 HR EMERGENCY • AU 1800	033 111 • NZ 0800 734 607 • INTERNATION	AL +61 3 9663 2130	

TYPICAL PROCESSING CONDITIONS

PROTEQ™ 7008

The following typical guidelines are offered as initial processing conditions for **PROTEQ™ 7008** In practice, processing parameters may need to be varied to give commercially acceptable performance in conjunction with optimum physical properties. For specific technical advice on part design or processing conditions, contact the Marplex Technical Service Department.

Temperature of pellet bed in dehumidifying drier	85 - 90 ℃	
Minimum drying time at desired pellet bed temp	2 - 4 hours	
Mould temperature	30 - 70 ℃	
Nozzle temperature	Do not exceed stock temperature	
Melt temperature		220 - 260℃
Cylinder temperatures	Rear	180 - 240 <i>°</i> C
	Middle	190 - 250 <i>°</i> C
	Front	210 - 260℃
Fill speed		Medium
Screw speed		40 - 60 rpm
Screw back pressure		0.1 - 0.5 MPa
Injection pressure		60 - 140 MPa
Clamp pressure		3 - 6 kN/cm ²

Comment(s):

- 1 Cleanliness of the dryer, machine hopper and machine screw/barrel/nozzle assembly are essential for processing PROTEQ[™] and producing contamination free moulded components.
- 2 PROTEQ[™] is not compatible with other polymers.
- 3 It is suggested that the pre-drying, moulding die and material temperatures are manually confirmed using a hand held temperature measuring device.

Conversions: 1 MPa = 145 psi = 10.2 kg/cm² = 10 bar °C = 5(F-32)/9 1 kN/cm² = 0.65 ton/in²