

PROTEQ™ L10Q6

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ L10Q6 is a 30% glass fibre reinforced impact modified grade of polypropylene.

It is intended for use in applications where rigidity and toughness are paramount.

PROTEQ™ L10Q6 is a development grade. The typical results reported below are from limited experimental data and are subject to frequent review.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Impact Modifier		
Features	Good Toughness		
	High Rigidity		
	Impact Modified		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.50	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	73		
Shore D, 15 sec	67		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
3.20 mm ¹	56.0	MPa	
3.20 mm ²	68.0	MPa	
Tensile Elongation ³ (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	4000	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	78.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	190	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	800	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	155	°C	
1.8 MPa, Unannealed, 3.20 mm	128	°C	
Vicat Softening Temperature	155	°C	ASTM D1525 ⁶
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696

Flammability	Nominal Value	Unit	Test Method
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Flame Rating (1.60 mm)	HB	UL 94
Glow Wire Ignition Temperature (1.60 mm)	550	°C AS/NZS 60695
Injection	Nominal Value	Unit
Drying Temperature	70.0 to 80.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	205 to 225	°C
Middle Temperature	225 to 245	°C
Front Temperature	235 to 255	°C
Processing (Melt) Temp	195 to 260	°C
Mold Temperature	40.0 to 70.0	°C
Injection Pressure	160 to 250	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.100 to 0.500	MPa
Screw Speed	40 to 60	rpm
Clamp Tonnage	3.0 to 6.0	kN/cm ²
NOTE		
1.	5.0 mm/min	
2.	50 mm/min	
3.	5.0 mm/min	
4.	1.3 mm/min	
5.	1.3 mm/min	
6.	Loading 1 (10 N)	

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