

PROTEQ™ C4K2

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C4K2 is a medium flow, flame retardant grade of Polypropylene copolymer which meets the stringent UL94 V-2 and AS/NZS 60695.2.12 (IEC 60695-2-12) 960°C Glow Wire flammability test. Typical applications: Electrical appliances where a high level of flame retardancy is required.

General Information			
Features	Copolymer		
	Flame Retardant		
	Medium Flow		
Uses	Appliances		
	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	25.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 180	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1100	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	30.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	180	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	> 850	J/m	ASTM D256
Gardner Impact (3.20 mm)	28.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.20 mm)	100	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 ⁵
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Glow Wire Flammability Index (1.60 mm)	960	°C	AS/NZS 60695.2.12
Injection	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	190 to 200	°C	
Middle Temperature	200 to 210	°C	
Front Temperature	200 to 220	°C	

Processing (Melt) Temp	200 to 220	°C
Mold Temperature	20.0 to 60.0	°C
Injection Pressure	60.0 to 140	MPa
Injection Rate	Moderate	
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.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min
5.	Loading 1 (10 N)

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