

PROTEQ™ C25SK9

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C25SK9 is a medium flow, heat stabilised flame retardant grade of Polypropylene copolymer for applications where long term heat aging stability and flame retardant are required. PPC25SK9 is designed to meet the stringent UL94 V-2 and AS/NZS 60695.2.12 (IEC 60695-2-12) 960°C Glow Wire flammability test. Typical applications include light fittings, electrical appliances where an elevated temperature is expected and a high level of flame retardancy is required.

General Information	
Additive	Heat Stabilizer
Features	Copolymer
	Flame Retardant
	Good Heat Aging Resistance
	Heat Stabilized
	Medium Flow
Uses	Appliances
	Electrical/Electronic Applications
	Lighting Fixtures

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.979	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.1	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	27.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1600	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	38.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	70	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	> 850	J/m	ASTM D256
Gardner Impact (3.20 mm)	8.00	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.20 mm)	110	°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 Ignition Temperature (1.60 mm)	960	°C	AS/NZS 60695

Injection	Nominal Value	Unit
Drying Temperature	85.0 to 90.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	180 to 210	°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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