

PROTEQ™ C2K30

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C2K30 is low melt flow, high impact and flame retardant grade of Polypropylene copolymer which meets the stringent UL94 V-2 and AS/NZS 60695.2.12 (IEC 60695-2-12) flammability tests. PROTEQ™ C2K30 has also been successfully validated against the requirements of AS1530.2-1993 (Flammability of Materials) in a 1.2 mm thick extruded strip. C2K30 is designed for profile extrusion and selective moulding applications requiring a tough material with a balance of rigidity, flame retardancy and processability.

General Information			
Features	Copolymer		
	Flame Retardant		
	Good Processability		
	Good Stiffness		
	Good Toughness		
	High Impact Resistance		
	Low Flow		
Processing Method	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	71		
Shore D, 15 sec	68		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	26.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 300	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1250	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	32.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	280	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	> 750	J/m	ASTM D256
Gardner Impact (3.20 mm)	40.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.20 mm)	78.0	°C	ASTM D648
Vicat Softening Temperature	148	°C	ASTM D1525 ⁵
Flammability	Nominal Value	Unit	Test Method

Flame Rating (3.00 mm)	V-2	UL 94
Glow Wire Ignition Temperature (3.00 mm)	960	°C AS/NZS 60695
Extrusion	Nominal Value	Unit
Drying Temperature	85.0 to 90.0	°C
Drying Time	2.0 to 4.0	hr
Cylinder Zone 1 Temp.	150 to 180	°C
Cylinder Zone 2 Temp.	160 to 190	°C
Cylinder Zone 3 Temp.	170 to 200	°C
Cylinder Zone 4 Temp.	170 to 200	°C
Cylinder Zone 5 Temp.	180 to 210	°C
Melt Temperature	190 to 220	°C
Die Temperature	180 to 210	°C
Take-Off Roll	70.0 to 105	°C
Back Pressure	10.0 to 25.0	MPa
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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