

PROTEQ™ C17T4

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C17T4 is a medium flow, 20% talc reinforced general purpose grade of polypropylene copolymer. It has excellent processability, a good balance of rigidity and impact strength and a clean natural colour.

Note: The letter "U" within the grade name indicates UV stabilisation has been added [ie: PROTEQ™ C17UT4].

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Copolymer		
	General Purpose		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Medium Flow		
Uses	General Purpose		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	67		
Shore D, 15 sec	63		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	25.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1900	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)	60	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	650	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	130	°C	
1.8 MPa, Unannealed, 3.20 mm	65.0	°C	
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696

Flammability	Nominal Value	Unit	Test Method
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	85.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	195 to 215	°C	
Middle Temperature	205 to 225	°C	
Front Temperature	215 to 235	°C	
Processing (Melt) Temp	220 to 270	°C	
Mold Temperature	50.0 to 80.0	°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		

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