

PROTEQ™ C12UT2

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C12UT2 is a medium flow, 10% talc filled grade of Polypropylene Copolymer. The product is stabilised for applications requiring enhanced resistance to UV exposure. ProteQ C12UT2 has a good balance of properties such as rigidity and toughness.

General Information			
Filler / Reinforcement	Talc filler, 10% filler by weight		
Additive	UV stabilizer		
Features	Rigid, good		
	Good UV resistance		
	Medium liquidity		
	Good toughness		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw D	68		ISO 868
Shaw D, 15 seconds	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	26.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2100	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	65	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, 3.20mm	123	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	62.0	°C	ASTM D648
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	HB		UL 94
Glow Wire Ignition Temperature (1.6 mm)	550	°C	AS/NZS 60695
Injection	Nominal Value	Unit	

Drying Temperature	85 - 90	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	195 - 215	°C
Middle Temperature	205 - 225	°C
Front Temperature	215 - 235	°C
Processing (Melt) Temp	220 - 270	°C
Mold Temperature	50 - 80	°C
Injection Pressure	60.0 - 140	MPa
Injection Rate	Moderate	
Back Pressure	0.100 - 0.500	MPa
Screw Speed	40 - 60	rpm
Clamp Tonnage	3.0 - 6.0	kN/cm ²

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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