

PROTEQ™ CT221505

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ CT221505 is a 15% mineral filled, impact modified, heat stabilized, medium flow Polypropylene compound.

General Information			
Filler / Reinforcement	Mineral, 15% Filler by Weight		
Additive	Heat Stabilizer		
	Impact Modifier		
Features	Heat Stabilized		
	Impact Modified		
	Medium Flow		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.1	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	67		
Shore D, 15 sec	59		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	23.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1620	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	33.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	120	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	112	°C	
1.8 MPa, Unannealed, 12.7 mm	55.0	°C	
CLTE - Flow	7.0E-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	
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Drying Temperature	85.0 to 90.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	195 to 215	°C
Middle Temperature	215 to 235	°C
Front Temperature	215 to 235	°C
Processing (Melt) Temp	220 to 230	°C
Mold Temperature	40.0 to 70.0	°C
Injection Pressure	60.0 to 140	MPa
Injection Rate	Slow-Moderate	
Back Pressure	0.100 to 0.500	MPa
Screw Speed	40 to 60	rpm
Clamp Tonnage	5.0 to 9.0	kN/cm ²

NOTE

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

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