

PROTEQ™ H2UST4

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ H2UST4 is a 20% talc filled polypropylene homopolymer compound specifically developed for extrusion applications. It is a high viscosity grade with high stiffness and good weatherability for outdoor applications. Applications include extruded profiles such as hydroponic pipes.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Weather Resistance		
	High Stiffness		
	High Viscosity		
	Homopolymer		
	Low Flow		
Uses	Outdoor Applications		
	Piping		
	Profiles		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.90 to 1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	77		
Shore D, 15 sec	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	31.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	45	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2100	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	48.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	40	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	400	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	72.0	°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 Flammability Index (1.60 mm)	550	°C	AS/NZS 60695.2.12
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	150 to 170	°C	
Middle Temperature	165 to 200	°C	
Front Temperature	170 to 210	°C	
Processing (Melt) Temp	190 to 210	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	10 mm/min		
4.	10 mm/min		

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