

PROTEQ™ H2US

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ H2US is a low flow extrusion grade of polypropylene homopolymer. This grade is stabilised for extended performance in environments where there is exposure to heat and UV radiation.

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Heat Stabilized		
	Homopolymer		
	Low Flow		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	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)	1.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	34.0	MPa	ASTM D638
Flexural Modulus ² (3.20 mm)	1450	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	65	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	84.0	°C	
1.8 MPa, Unannealed, 3.20 mm	53.0	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
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 260	°C	
Mold Temperature	50.0 to 70.0	°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.	50 mm/min	
2.	10 mm/min	

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