

Hylex® P1010FR

Polycarbonate

Entec Polymers

Message:

Unreinforced, UL V-0 Rated

General Information			
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	66.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	120	%	ASTM D638
Flexural Modulus (23°C)	2140	MPa	ASTM D790
Flexural Strength (23°C)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	143	°C	
1.8 MPa, Unannealed	135	°C	
Vicat Softening Temperature	152	°C	ASTM D1525
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	ASTM D257
Dielectric Strength (3.18 mm, in Air)	15	kV/mm	ASTM D149
Arc Resistance	90.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹ (1.55 mm, Min. Tested Thickness)	V-0		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance (3180 µm)	87.0 to 89.0	%	ASTM D1003
Haze (3180 µm)	0.90 to 1.0	%	ASTM D1003
NOTE			

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