

Product information			
Manufacturer	Formosa Plastics Corporation		
Other Certificates	MSDS		
Part Marking Code	POM		
Color	IV		
Material Shape	Pellets		
Process	Injection molding		
Polymer	Copolymer		
FR	HB		
specification	• UL		
Features	• Medium flow		
Application	• Automotive applications • Fasteners • E & E Applications • Home Appliances Applications • Bearing • Gears • Hardware • Plumbing parts • Buttons • Zipper		
UL File NO.	E173318		
Certificate	 		
Physical property	Standard	Value	Unit
Density	ISO 1183	1.41	g/cm ³
Shrinkage	ISO 294	1.8~2.2	%
Water Absorption	ISO 62	0.2	%
Melt Index	ISO 1133	9	g/10min
Hardness	Standard	Value	Unit
Rockwell Hardness M(Scale)	ISO 2039	80	
Mechanical behavior	Standard	Value	Unit
Tensile Strength Yield	ISO 527	62	MPa
Elongation Break	ISO 527	35	%
Flexural Strength	ISO 178	88	MPa
Flexural Modulus	ISO 178	2500	MPa
Charpy Notch Impact	ISO 179	6.5	kJ/m ²
Thermal	Standard	Value	Unit
HDT 1.8MPa	ISO 75	103	°C
Melting Temperature	ISO 11357	165	°C
CLE	ISO 11359	1.2E-4	cm/cm/°C
Electrical properties	Standard	Value	Unit
Volume Resistivity	IEC 60093	1E+14	Ω.cm
Surface Resistivity	IEC 60093	1E+16	Ω
Dielectric Strength 3.0mm Break Down	IEC 60243	19	KV/mm
Flammability	Standard	Value	Unit
Flame Rating All Color 0.8mm	UL94	HB	
Flame Rating All Color 3.0mm	UL94	HB	
UL	Standard	Value	Unit
UL FlameRating ALL 0.8mm	UL94	HB	
UL FlameRating ALL 3.0mm	UL94	HB	
HWI ALL 0.8mm	UL 746A	5	PLC
HWI ALL 3.0mm	UL 746A	3	PLC
HAI ALL 0.8mm	UL 746A	0	PLC
HAI ALL 3.0mm	UL 746A	0	PLC
RTI Elec ALL 0.8mm	UL 746B	110	°C
RTI Elec ALL 3.0mm	UL 746B	110	°C
RTI Imp ALL 0.8mm	UL 746B	90	°C
RTI Imp ALL 3.0mm	UL 746B	90	°C
RTI Str ALL 0.8mm	UL 746B	90	°C
RTI Str ALL 3.0mm	UL 746B	100	°C
Comparative Tracking Index	IEC 60112	0	PLC



HVTR	UL 746A	0	PLC
Arc Resistance	ASTM D495	5	PLC

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