

Formosa Plastics

POM

FM270

Product information				
Manufacturer		Formosa Plastics Corporation		
Color		IV		
Material Shape		Pellets		
FR		HB		
Features		High flow		
Application		Automotive applicationsFastenersE & E ApplicationsHome Appliances ApplicationsBearingGearsHardwarePlumbing partsButtonsZipper		
Electrical properties	Condition	Standard	Value	Unit
Dielectric	Strength 3.0mm Break Down	IEC 60243	19	KV/mm
Surface	Resistivity	IEC 60093	1E+15	Ω
Volume	Resistivity	IEC 60093	1E+13	Ω.cm
Flammability	Condition	Standard	Value	Unit
Flame	Rating All Color 0.8mm	UL94	HB	
Flame	Rating All Color 3.0mm	UL94	HB	
Hardness	Condition	Standard	Value	Unit
Rockwell	Hardness M(Scale)	ISO 2039	80	
Mechanical behavior	Condition	Standard	Value	Unit
Charpy	Notch Impact	ISO 179	5.5	kJ/m ²
Elongation	Break	ISO 527	30	%
Flexural	Strength	ISO 178	90	MPa
Flexural	Modulus	ISO 178	2550	MPa
Tensile	Strength Yield	ISO 527	63	MPa
Physical property	Condition	Standard	Value	Unit
Density		ISO 1183	1.41	g/cm ³
Melt	Index	ISO 1133	24	g/10min
Shrinkage		ISO 294	1.8~2.2	%
Water	Absorption	ISO 62	0.2	%
Thermal	Condition	Standard	Value	Unit
CLE		ISO 11359	1.1E-4	cm/cm/°C
HDT	1.8MPa	ISO 75	102	°C
Melting	Temperature	ISO 11357	165	°C
UL	Condition	Standard	Value	Unit
Arc	Resistance	ASTM D495	5	PLC
Comparative	Tracking Index	IEC 60112	0	PLC
HAI	ALL 0.8mm	UL 746A	0	PLC

HAI	ALL 3.0mm	UL 746A	0	PLC
HVTR		UL 746A	0	PLC
HWI	ALL 0.8mm	UL 746A	5	PLC
HWI	ALL 3.0mm	UL 746A	3	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
UL	FlameRating ALL 0.8mm	UL94	HB	
UL	FlameRating ALL 3.0mm	UL94	HB	