POLYFLAM® RMMB 40400

Polycarbonate + ABS

A. Schulman Europe

Message:

Flame retardant ABS/PC blend for higher temperature resistance and impact strength; halogen free according to DIN VDE 0472 part 815

General Information			
UL YellowCard	E86615-100688208		
Features	Impact resistance, good Workability, good Low temperature impact resistance Halogen-free Flame retardancy		
UL File Number	E86615		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.18	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	28.0	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2400	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	63.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	21	kJ/m²	ISO 179/1eA
23°C	63	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	103	°C	ISO 75-2/Bf
1.8 MPa, not annealed	95.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	115	°C	ISO 306/A50
--	110	°C	ISO 306/B50
Ball Pressure Test (105°C)	Pass		IEC 60695-10-2
RTI Elec			UL 746

1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
RTI Imp			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
RTI			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index	600	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 3		UL 746
3.00 mm	PLC 2		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		UL 746
3.00 mm	PLC 2		UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate			ISO 3795
1.50mm, automatic fire extinguishing	0.0	mm/min	ISO 3795
3.00mm, automatic fire extinguishing	0.0	mm/min	ISO 3795
3.50, automatic fire extinguishing	0.0	mm/min	ISO 3795
Flame Rating			UL 94, IEC 60695-11-10, -20
1.50 mm	V-0		UL 94, IEC 60695-11-10, -20
3.00 mm	V-0		UL 94, IEC 60695-11-10, -20
3.50 mm	V-0 5VA		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	960	°C	IEC 60695-2-12
3.00 mm	960	°C	IEC 60695-2-12
3.50 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	800	°C	IEC 60695-2-13
3.00 mm	800	°C	IEC 60695-2-13
3.50 mm	800	°C	IEC 60695-2-13

Additional Information

1.)
Not for use in food contact applications2.)
Not for use in medical or pharmaceutical applications

Injection	Nominal Value	Unit
Drying Temperature	80.0 - 100	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	250	°C
Middle Temperature	270	°C
Front Temperature	270	°C
Nozzle Temperature	280	°C
Processing (Melt) Temp	250 - 280	°C
Mold Temperature	60.0 - 80.0	°C
Injection Pressure	80.0 - 150	MPa
Injection Rate	Moderate-Fast	
Holding Pressure	30.0 - 70.0	MPa
Back Pressure	5.00 - 10.0	MPa
Cushion	< 5.00	mm
Screw Speed		mm/sec

Recommended distributors for this material

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