

# Loyblend® TA-1810FR

Polycarbonate + ABS

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

## Message:

Loyblend® TA-1810FR is non-chlorinated, non-brominated flame retardant PC/ABS alloy compound. This grade offers balanced heat, flow, and impact to meet various application needs.

General Information			
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Flow		
	High Impact Resistance		
Uses	Automotive Applications		
	Automotive Instrument Panel		
	Business Equipment		
	LCD Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3010	MPa	ASTM D638
Tensile Strength	65.0	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2700	MPa	ASTM D790
Flexural Strength	97.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	680	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	88.0	°C	ASTM D648

Flammability	Nominal Value	Test Method
Flame Rating (1.60 mm)	V-0	UL 94

  

Injection	Nominal Value	Unit
Drying Temperature	80.0 to 100	°C
Drying Time	4.0 to 6.0	hr
Rear Temperature	220 to 230	°C
Middle Temperature	230 to 240	°C
Front Temperature	240 to 250	°C
Nozzle Temperature	250 to 260	°C
Mold Temperature	60.0 to 80.0	°C

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#### Recommended distributors for this material

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