

# Loyblend® YA-1803

Acrylonitrile Butadiene Styrene + PBT  
Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Loyblend® YA-1803 is 40% glass fiber filled PBT/ABS polymer alloy compound. This grade offers chemical resistance, high heat resistance, high rigidity, low warping and low wear

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Wear Resistance		
	High Heat Resistance		
	High Rigidity		
	Low Warpage		
Uses	Appliances		
	Automotive Applications		
	Business Equipment		
	Electrical Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.4	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	175	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	200	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm)	HB	UL 94	

Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	4.0 to 6.0	hr
Rear Temperature	230 to 240	°C
Middle Temperature	235 to 245	°C
Front Temperature	240 to 250	°C
Nozzle Temperature	250 to 260	°C
Mold Temperature	50.0 to 90.0	°C

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#### Recommended distributors for this material

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