

# Loyblend® TY-1000

Polycarbonate + PBT

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

## Message:

Loyblend® TY-1000 is high impact compounded blend of polycarbonate and polyethylene terephthalate. This grade offers good chemical resistance, good dimensional stability and high heat resistance.

General Information			
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	High Heat Resistance		
	High Impact Resistance		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	51.0	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	2050	MPa	ASTM D790
Flexural Strength	76.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	100	°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	210 to 250	°C	
Middle Temperature	220 to 260	°C	

Front Temperature	225 to 270	°C
Nozzle Temperature	230 to 250	°C
Mold Temperature	50.0 to 90.0	°C

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Recommended distributors for this material

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