

Loyblend® TA-1004

Polycarbonate + ABS

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Loyblend® TA-1004 is an easy flow PC/ABS polymer alloy. This grade offers super impact resistance, high heat resistance and good dimensional stability.

General Information			
Features	Good Dimensional Stability		
	Good Flow		
	High Heat Resistance		
	High Impact Resistance		
Uses	Appliances		
	Automotive Applications		
	Business Equipment		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
260°C/2.16 kg	9.0	g/10 min	
260°C/5.0 kg	16	g/10 min	
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 Modulus	2850	MPa	ASTM D638
Tensile Strength	57.0	MPa	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Modulus	2380	MPa	ASTM D790
Flexural Strength	92.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	830	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 4.00 mm	127	°C	
1.8 MPa, Unannealed, 4.00 mm	110	°C	

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 270	°C
Mold Temperature	50.0 to 90.0	°C

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