

Toughblend® ABS-1401

Acrylonitrile Butadiene Styrene

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Toughblend® ABS-1401 is a medium flow and good rigidity and good impact compound. The addition of fillers further enhanced its dimensional stability for parts requiring tight dimension tolerance.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Good Impact Resistance		
	High Rigidity		
	Medium Flow		
Uses	Business Equipment		
	Electrical/Electronic Applications		
	Housings		
	Printer Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/10.0 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	77.0	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	5800	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	71	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 220	°C
Middle Temperature	220 to 230	°C
Front Temperature	230 to 240	°C
Nozzle Temperature	240 to 250	°C
Processing (Melt) Temp	230 to 250	°C
Mold Temperature	70.0 to 80.0	°C

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