

POLIMAXX SP100

Acrylonitrile Butadiene Styrene
IRPC Public Company Limited

Message:

SP100 is a super high impact grade of ABS resin for injection molding process. It is suitable for auto parts (motorcycle component), refrigerator handle, and electrical appliances where need super high impact strength.

General Information			
UL YellowCard	E132283-222085		
Features	Ultra High Impact Resistance		
Uses	Appliance Components		
	Automotive Applications		
	Electrical/Electronic Applications		
	Handles		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	18	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, 6.35 mm)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	44.1	MPa	ASTM D638
Flexural Modulus (23°C)	2160	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	63.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	330	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	90.0	°C	
1.8 MPa, Unannealed, 6.35 mm	84.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0 to 5.0	hr	
Processing (Melt) Temp	190 to 240	°C	

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