POLIMAXX SP100

Acrylonitrile Butadiene Styrene

IRPC Public Company Limited



Technical Data

Product Description						
SP100 is a super high impact grade handle, and electrical appliances wh	of ABS resin fo here need super	r injection molding pro high impact strength.	cess. It is s	uitable for auto pa	rts (motorcycle c	omponent), refrigerator
General		<u></u>				
Material Status	Comme	ercial: Active				
Literature ¹	Technic	al Datasheet (English)			
UL Yellow Card ²	• E13228	3-222085				
Search for UL Yellow Card	IRPC P	ublic Company Limite	d			
Availability	 Asia Pa 	icific	 Europ 	e	North	America
Features	 Food C 	ontact Acceptable	Ultra H	ligh Impact Resist	ance	
Uses		ce Components tive Applications	 Electri Applic Handle 			
Agency Ratings	• FDA 21	CFR 181.32				
RoHS Compliance	RoHS (Compliant				
Processing Method	 Injectio 	n Molding				
Physical		Nominal Value (Eng	glish)	Nominal Va	alue (SI)	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)		18 g/10 min			18 g/10 min	ASTM D1238
Mechanical		Nominal Value (Eng	glish)	Nominal Va	alue (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	6400 psi		2	14.1 MPa	ASTM D638
Flexural Modulus (73°F (23°C))		313000 psi		2	160 MPa	ASTM D790
Flexural Strength (Yield, 73°F (23°C))	9250 psi		6	63.7 MPa	ASTM D790
Impact		Nominal Value (Eng	glish)	Nominal Va	alue (SI)	Test Method
Notched Izod Impact						ASTM D256
73°F (23°C), 0.250 in (6.35 mm)		6.2 ft·lb/	/in		330 J/m	
Hardness		Nominal Value (Eng	glish)	Nominal Va	alue (SI)	Test Method
Rockwell Hardness						ASTM D785
R-Scale, 73°F (23°C), 0.250 in (6.	.35 mm)	110			110	
Thermal		Nominal Value (Eng	glish)	Nominal Va	alue (SI)	Test Method
Deflection Temperature Under Load						ASTM D648
66 psi (0.45 MPa), Unannealed, 0 mm)	.250 in (6.35	194 °F		ç	90.0°C	

264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	183 °F	84.0 °C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 to 185 °F	80 to 85 °C	
Drying Time	2.0 to 5.0 hr	2.0 to 5.0 hr	

Processing (Melt) Temp

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

374 to 464 °F

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.



1 of 2

UL and the UL logo are trademarks of UL LLC © 2018. All Rights Reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

Form No. TDS-20792-en Document Created: Wednesday, January 10, 2018 Added to Prospector: November 2000 Last Updated: 1/5/2017

190 to 240 °C

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

POLIMAXX SP100

Acrylonitrile Butadiene Styrene IRPC Public Company Limited

Where to Buy

Supplier

IRPC Public Company Limited , Thailand Telephone: +66-2-678-5000 Web: http://www.irpcmarket.com/

Distributor

API-Kolon Engineering Plastics Telephone: 847-550-5556 Web: http://www.apikolon.com/ Availability: Mexico, North America, South America

Click Plastics AG

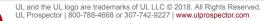
Click Plastics AG is a Pan European distribution company. Contact Click Plastics for availability of individual products by country. **Telephone:** +49-6251-770-690-0 **Web:** http://www.clickplastics.com **Availability**: Germany

PolySource Telephone: 866-558-5300 Web: http://www.polysource.net/ Availability: North America

Resinal de México Telephone: +52-55-5254-7600 Web: http://resinal.mx/ Availability: Mexico

Southland Polymers

Southland Polymers - Full Service Engineering and Commodity Resin Distribution Since 1979 Telephone: 562-921-0444 Web: http://www.southlandpolymers.com/ Availability: Central America, North America, South America



The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

