

POLIMAXX SR101

IRPC Public Company Limited - *Acrylonitrile Butadiene Styrene*

General Information

Product Description

SR101 is an ABS grade that provides high impact strength and low melt flow ability. It is designed for extrusion processing sheet thermoforming such as appliance & electronic parts, automotive parts, door liners and luggage bags.

Industry:

- Appliance & Electronic Parts
- Interior Parts
- Door liner

Product Feature:

- High Impact Strength
- Low Melt Flow Ability

Regulation Compliance:

- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- UL Yellow Card: E132283

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• High Impact Resistance	• Low Flow	
Uses	• Automotive Applications • Liners	• Luggage • Sheet	• Sporting Goods • Thermoforming Applications
Agency Ratings	• EC 1907/2006 (REACH)	• EU 2011/65/EC	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Sheet Extrusion	• Thermoforming	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage	0.40 to 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield, 0.126 in)	6540	psi	ASTM D638
Tensile Elongation ³ (Break, 0.126 in)	40	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (0.252 in)	313000	psi	ASTM D790
Flexural Strength ⁴ (Yield, 0.252 in)	8960	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.252 in)	6.4	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F, 0.252 in)	108		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.252 in)	187	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	176 to 185	°F
	2.0 to 4.0	h



Cylinder Zone 1 Temp.	356 to 428 °F
Cylinder Zone 2 Temp.	356 to 428 °F
Cylinder Zone 3 Temp.	356 to 428 °F
Cylinder Zone 4 Temp.	356 to 428 °F
Cylinder Zone 5 Temp.	356 to 428 °F
Melt Temperature	374 to 464 °F
Die Temperature	374 to 464 °F

Notes

¹ Typical properties: these are not to be construed as specifications.
² 23°C
³ 0.20 in/min
⁴ 0.098 in/min

