

POLIMAXX 1111R

 IRPC Public Company Limited - *Polypropylene Homopolymer*
General Information
Product Description

1111R is a Polypropylene Homo-polymer resin for injection molding process with the characteristic of high flow, high stiffness and heat stability. It is suitable for the production of complex part, long path and thin wall. Typical applications are electrical appliances and automotive parts. It also meets the F.D.A. requirement in the code of federal regulations in 21 CFR 177.1520 for food contact.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Food Contact Acceptable • High Flow • Homopolymer • Good Thermal Stability • High Stiffness
Uses	• Appliance Components • Electrical/Electronic Applications • Automotive Applications • Thin-walled Parts
Agency Ratings	• FDA 21 CFR 177.1520
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5800	psi	ASTM D638
Tensile Elongation (Yield)	22	%	ASTM D638
Flexural Modulus - 1% Secant	268000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.1	ft·lb/in ²	DIN 53453
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	264	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	374 to 464	°F

