

POLIMAXX 1111R

Polypropylene Homopolymer
IRPC Public Company Limited

Message:

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 Information			
UL YellowCard	E132283-222103		
Features	Food Contact Acceptable		
	Good Thermal Stability		
	High Flow		
	High Stiffness		
	Homopolymer		
Uses	Appliance Components		
	Automotive Applications		
	Electrical/Electronic Applications		
	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	40.0	MPa	ASTM D638
Tensile Elongation (Yield)	22	%	ASTM D638
Flexural Modulus - 1% Secant	1850	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.3	kJ/m²	DIN 53453
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	129	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 to 290	°C	

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