

POLIMAXX V1160

High Density Polyethylene
IRPC Public Company Limited

Message:

V1160 is a High Density Polyethylene resin for injection molding with high flow ability. It is suitable for household, toy. It also meets the F.D.A. requirement in the code of federal regulations in 21 CFR 177.1520 for food contact.

General Information			
Features	Food Contact Acceptable		
	High Flow		
Uses	Household Goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.957	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	15	g/10 min	
190°C/5.0 kg	43	g/10 min	
Environmental Stress-Cracking Resistance (F50)	3.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	66		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	29.0	MPa	
Break	13.5	MPa	
Tensile Elongation (Break)	130	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m ²	DIN 53453
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 to 250	°C	

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