

POLIMAXX V1160

IRPC Public Company Limited - High Density Polyethylene

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Food Contact Acceptable • High Density • High Flow
Uses	• Household Goods • Toys
Agency Ratings	• FDA 21 CFR 177.1520
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.959		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 (ESCR) (F50)	3.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4210	psi	ASTM D638
Tensile Strength (Break)	1960	psi	ASTM D638
Tensile Elongation (Break)	130	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.2	ft·lb/in ²	DIN 53453
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	66		DIN 53505
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	257	°F	ASTM D1525

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	338 to 482	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

