

# POLIMAXX R1760

High Density Polyethylene

IRPC Public Company Limited

## Message:

R1760 is a High Density Polyethylene resin for injection molding with high impact strength, excellent surface appearance and good rigidity contain UV stabilizer additive. It is suitable for a few ml to 20-litre container, lubricant or cosmetic bottle, chemical container, one-way bottle. It also meets the F.D.A. requirement in the code of federal regulations in 21 CFR 177.1520 for food contact.

General Information			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Good Stiffness		
	Good Surface Finish		
	High Impact Resistance		
Uses	Bottles		
	Containers		
	Cosmetic Packaging		
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 <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	6.0	g/10 min	
190°C/5.0 kg	18	g/10 min	
Environmental Stress-Cracking Resistance (F50)	9.00	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	29.5	MPa	
Break	15.0	MPa	
Tensile Elongation (Break)	1000	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m <sup>2</sup>	DIN 53453
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525
Injection	Nominal Value	Unit	

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#### Recommended distributors for this material

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