

# Polene HDPE G2855

## High Density Polyethylene

### IRPC Public Company Limited



Prospector

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• North America	
Features	• Good Impact Resistance	• Good Processability	• Good Stiffness
Uses	• Blow Molding Applications	• Bottles	• Toys
Agency Ratings	• FDA 21 CFR 177.1520		
Forms	• Pellets		
Processing Method	• Blow Molding		

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.955 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/2.16 kg	0.35 g/10 min	
190°C/5.0 kg	1.5 g/10 min	
Environmental Stress-Cracking Resistance		ASTM D1693B
F50	60.0 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield	29.5 MPa	
Break	33.0 MPa	
Tensile Elongation (Break)	2000 %	ASTM D638

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	7.5 kJ/m <sup>2</sup>	DIN 53453

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	65	DIN 53505

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	125 °C	ASTM D1525

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.