Polene HDPE G2855

High Density Polyethylene IRPC Public Company Limited



| 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/cm³ | 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/m² | 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

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

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