

Product Texts

Topester™ 455RL is completely recyclable.

Processing/Physical Characteristics

| | Value | Unit | Test Standard |
|-----------------------------|-------|---------|-----------------|
| ISO Data | | | |
| Melt flow index, MFI | 19 | g/10min | ISO 1133 |
| Temperature | 230 | °C | - |
| Load | 2.16 | kg | - |
| Molding shrinkage, parallel | 1.6 | % | ISO 294-4, 2577 |

Mechanical properties

| | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Stress at break | 36 | MPa | ISO 527 |
| Strain at break | 570 | % | ISO 527 |
| Flexural modulus | 220 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | N | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | N | kJ/m ² | ISO 179/1eA |
| Shore D hardness | 55 | - | ISO 7619-1 |

Thermal properties

| | Value | Unit | Test Standard |
|--------------------------------|-------|------|----------------|
| ISO Data | | | |
| Melting temperature, 10°C/min | 204 | °C | ISO 11357-1/-3 |
| Vicat softening temperature, A | 180 | °C | ISO 306 |

Electrical properties

| | Value | Unit | Test Standard |
|--------------------|-------|-------|---------------|
| ISO Data | | | |
| Volume resistivity | 4E11 | Ohm*m | IEC 62631-3-1 |

Other properties

| | Value | Unit | Test Standard |
|---------|-------|-------------------|---------------|
| Density | 1190 | kg/m ³ | ISO 1183 |

Processing Recommendation Injection Molding

| | Value | Unit | Test Standard |
|--------------------------|-----------|------|---------------|
| Pre-drying - Temperature | 110 | °C | - |
| Pre-drying - Time | 3 - 5 | h | - |
| Mold temperature | 20 - 60 | °C | - |
| Zone 1 | 180 - 200 | °C | - |
| Zone 2 | 210 - 240 | °C | - |
| Zone 3 | 210 - 240 | °C | - |
| Nozzle temperature | 210 - 240 | °C | - |

Processing Recommendation Extrusion

| | Value | Unit | Test Standard |
|--------------------------|------------|------|---------------|
| Type of extrusion | wire/cable | - | - |
| Pre-drying - Temperature | 110 | °C | - |
| Pre-drying - Time | 3 - 5 | h | - |
| Zone 1 | 180 - 200 | °C | - |
| Zone 2 | 210 - 240 | °C | - |
| Zone 3 | 210 - 240 | °C | - |

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets, Natural Color

Applications

Automotive

Regional Availability

Asia Pacific

Special Characteristics

Heat stabilized or stable to heat