

STAREX SR-0315 V

ABS

Lotte Chemical Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| ISO Data | | | |
| Melt flow index, MFI | 26 | g/10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 26 | g/10min | ASTM D 1238 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Mold Shrinkage, TD | 0.0035 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 2300 | MPa | ISO 527 |
| Yield stress | 42 | MPa | ISO 527 |
| Stress at break | 33 | MPa | ISO 527 |
| Strain at break | 32 | % | ISO 527 |
| Flexural modulus, 23°C | 2500 | MPa | ISO 178 |
| Flexural strength | 73 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 24 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 24 | kJ/m ² | ISO 180/1A |
| Rockwell hardness | R 108 | - | ISO 2039-2 |
| ASTM Data | | | |
| Tensile Modulus | 2200 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 39 | MPa | ASTM D 638 |
| Tensile Strength at Break | 32 | MPa | ASTM D 638 |
| Elongation at Yield | 30 | % | ASTM D 638 |
| Elongation at Break | 41 | % | ASTM D 638 |
| Flexural Modulus | 2200 | MPa | ASTM D 790 |
| Flexural Strength | 63 | MPa | ASTM D 790 |
| Rockwell Hardness | R 109 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 250 | J/m | ASTM D 256 |
| Izod Impact notched, 1/4 in | 210 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 80 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 93 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 100 | °C | ISO 306 |
| ASTM Data | | | |
| DTUL @ 66 psi | 99 | °C | ASTM D 648 |
| DTUL @ 264 psi | 90 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 1040 | kg/m ³ | ISO 1183 |
| Density | 1040 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Processing humidity | ≤0.1 | % | - |
| Melt temperature | 230 | °C | - |
| Mold temperature | 40 - 80 | °C | - |
| Zone 1 | 200 - 210 | °C | - |
| Zone 2 | 210 - 220 | °C | - |
| Zone 3 | 220 - 230 | °C | - |
| Nozzle temperature | 230 | °C | - |
| Screw speed | 50 - 90 | rpm | - |

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| | | | |
|--------------------|--------------|-----|---|
| Injection pressure | 88 | MPa | - |
| Back pressure | 1 - 2 | MPa | - |

Characteristics**Processing**

Injection Molding

Applications

Automotive, Electrical and Electronical

Delivery form

Pellets, Natural Color

Regional Availability

North America, Europe, Asia Pacific