

ABS XR404

ABS

LG Chem

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|--------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 7 | g/10min | ASTM D 1238 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Mold Shrinkage, MD | 0.0055 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|--------------------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 47.1 | MPa | ASTM D 638 |
| Elongation at Break | 25 | % | ASTM D 638 |
| Flexural Modulus | 2551 | MPa | ASTM D 790 |
| Flexural Strength | 77.5 | MPa | ASTM D 790 |
| Rockwell Hardness | R 108 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 207 | J/m | ASTM D 256 |
| Izod Impact notched, 1/4 in | 189 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 66 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| DTUL @ 66 psi | 108 | °C | ASTM D 648 |
| DTUL @ 264 psi | 100 | °C | ASTM D 648 |
| Vicat Temperature | 108 | °C | ASTM D 1525 |

| Electrical properties | Value | Unit | Test Standard |
|---------------------------------|-------|--------|---------------|
| ISO Data | | | |
| Comparative tracking index | 600 | - | IEC 60112 |
| ASTM Data | | | |
| Dielectric Strength, Short Time | 33 | kV/mm | ASTM D 149 |
| Volume Resistivity | 1500 | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1050 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 80 - 90 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Processing humidity | ≤0.01 | % | - |
| Melt temperature | 220 - 240 | °C | - |
| Mold temperature | 40 - 60 | °C | - |
| Zone 1 | 180 - 210 | °C | - |
| Zone 2 | 210 - 230 | °C | - |
| Zone 3 | 230 - 240 | °C | - |
| Nozzle temperature | 230 - 240 | °C | - |
| Screw speed | 50 - 100 | rpm | - |
| Back pressure | 30 - 60 | MPa | - |

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America