

TAIRIPRO® K4515

 Formosa Chemicals & Fibre Corporation - *Polypropylene Random Copolymer*
General Information
Product Description

Injection Molding

Features: High clarity, Anti-static, Good resistance to chemical

General

| | | | |
|-----------------|------------------------|----------------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific | • Europe | • North America |
| Features | • Antistatic | • High Clarity | |
| | • Chemical Resistant | • Random Copolymer | |
| Uses | • Film | | |
| Agency Ratings | • EC 1907/2006 (REACH) | • FDA 21 CFR 177.1520(c) 3.1a | |
| RoHS Compliance | • RoHS Compliant | | |
| UL File Number | • E162823 | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|----------------|-----------------------|-----------------|
| Density / Specific Gravity ² | 0.902 | | ASTM D792 |
| Density (73°F) | 0.900 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 18 | g/10 min | ASTM D1238 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 18 | g/10 min | ISO 1133 |
| Molding Shrinkage - Flow (73°F) | 0.015 to 0.020 | in/in | Internal Method |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ³ (73°F) | 4410 | psi | ASTM D638 |
| Tensile Stress (73°F) | 4350 | psi | ISO 527-2/50 |
| Tensile Elongation ³ (Break, 73°F) | > 200 | % | ASTM D638 |
| Tensile Strain (Break, 73°F) | > 200 | % | ISO 527-2/50 |
| Flexural Modulus (73°F) | 164000 | psi | ASTM D790 |
| Flexural Modulus (73°F) | 164000 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| 73°F, 0.125 in | 1.1 | ft·lb/in | |
| 73°F, 0.157 in | 1.1 | ft·lb/in | |
| Notched Izod Impact Strength | | | ISO 180 |
| 73°F, 0.125 in | 28 | ft·lb/in ² | |
| 73°F, 0.157 in | 28 | ft·lb/in ² | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, 73°F) | 95 | | ASTM D785 |
| Rockwell Hardness (R-Scale, 73°F) | 95 | | ISO 2039-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in) | 203 | °F | ASTM D648 |
| Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in) | 203 | °F | ISO 75-2/B |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.06 in, All Color) | HB | | UL 94 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------|---------------|------|
| Mold Temperature | 86 to 122 | °F |



Notes

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

² 23°C

³ 2.0 in/min

⁴ 120°C/h

