

TAIRIPRO® B8001A3

 Formosa Chemicals & Fibre Corporation - *Polypropylene*

General Information

Product Description

Extrusion

Features: Excellent impact strength, Excellent resistance to low temp. brittleness

General

| | | | |
|-------------------|--------------------------|---|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific | • Europe | • North America |
| Features | • High Impact Resistance | • Low Temperature Brittleness Resistant | |
| Processing Method | • Extrusion | | |

 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) | 0.30 | g/10 min | ASTM D1238 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 0.30 | g/10 min | ISO 1133 |
| Molding Shrinkage - Flow (73°F) | 0.015 to 0.019 | in/in | ASTM D955 |
| Molding Shrinkage | 1.5 to 1.9 | % | ISO 2577 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ³ (73°F) | 3840 | psi | ASTM D638 |
| Tensile Stress (73°F) | 3770 | 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) | 156000 | psi | ASTM D790 |
| Flexural Modulus (73°F) | 171000 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -4°F, 0.157 in | 0.21 | ft·lb/in | |
| 73°F, 0.125 in | 1.5 | ft·lb/in | |
| Notched Izod Impact Strength | | | ISO 180 |
| 32°F, 0.157 in | 5.2 | ft·lb/in ² | |
| 73°F, 0.125 in | 38 | ft·lb/in ² | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, 73°F) | 80 | | ASTM D785 |
| Rockwell Hardness (R-Scale, 73°F) | 80 | | ISO 2039-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in) | 221 | °F | ASTM D648 |
| Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in) | 221 | °F | ISO 75-2/B |

Notes

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

² 23°C

³ 2.0 in/min

⁴ 120°C/h
