

## Technical Data

## Product Description

General Purpose PS

CHARACTERISTICS: Injection molding

## General

|                             |                                                                                            |          |                 |
|-----------------------------|--------------------------------------------------------------------------------------------|----------|-----------------|
| Material Status             | • Commercial: Active                                                                       |          |                 |
| Literature <sup>1</sup>     | • <a href="#">Processing (English)</a><br>• <a href="#">Technical Datasheet (English)</a>  |          |                 |
| UL Yellow Card <sup>2</sup> | • <a href="#">E162823-319285</a>                                                           |          |                 |
| Search for UL Yellow Card   | • <a href="#">Formosa Chemicals &amp; Fibre Corporation</a><br>• <a href="#">TAIRIREX®</a> |          |                 |
| Availability                | • Asia Pacific                                                                             | • Europe | • North America |
| Features                    | • General Purpose                                                                          |          |                 |
| Uses                        | • General Purpose                                                                          |          |                 |
| Agency Ratings              | • EC 1907/2006 (REACH)                                                                     |          |                 |
| RoHS Compliance             | • RoHS Compliant                                                                           |          |                 |
| UL File Number              | • E162823                                                                                  |          |                 |
| Processing Method           | • Injection Molding                                                                        |          |                 |

## Physical

## Nominal Value Unit

## Test Method

|                                          |                        |            |
|------------------------------------------|------------------------|------------|
| Density / Specific Gravity <sup>4</sup>  | 1.04 g/cm <sup>3</sup> | ASTM D792  |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 6.6 g/10 min           | ASTM D1238 |

## Mechanical

## Nominal Value Unit

## Test Method

|                                  |          |           |
|----------------------------------|----------|-----------|
| Tensile Modulus (23°C)           | 3040 MPa | ASTM D638 |
| Tensile Strength (23°C)          | 40.0 MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 2.0 %    | ASTM D638 |
| Flexural Modulus (23°C)          | 3140 MPa | ASTM D790 |
| Flexural Strength (23°C)         | 86.0 MPa | ASTM D790 |

## Impact

## Nominal Value Unit

## Test Method

|                                       |        |           |
|---------------------------------------|--------|-----------|
| Unnotched Izod Impact (23°C, 6.35 mm) | 17 J/m | ASTM D256 |
|---------------------------------------|--------|-----------|

## Thermal

## Nominal Value Unit

## Test Method

|                                                |         |            |
|------------------------------------------------|---------|------------|
| Deflection Temperature Under Load <sup>5</sup> |         | ASTM D648  |
| 1.8 MPa, Annealed, 3.18 mm                     | 87.0 °C |            |
| Vicat Softening Temperature <sup>6</sup>       | 95.0 °C | ASTM D1525 |

## Flammability

## Nominal Value Unit

## Test Method

|                                         |    |       |
|-----------------------------------------|----|-------|
| Flame Rating (1.5 to 1.7 mm, All Color) | HB | UL 94 |
|-----------------------------------------|----|-------|

## Additional Information

## Nominal Value Unit

|                  |           |  |
|------------------|-----------|--|
| Residual Monomer | < 700 ppm |  |
|------------------|-----------|--|

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 23°C

<sup>5</sup> 80°C/2hr

<sup>6</sup> Annealed 8°C×2hr  
1/8" bar



## Where to Buy

### Supplier

#### **Formosa Chemicals & Fibre Corporation**

Taipei, Taipei Taiwan  
**Telephone:** +886-2-2712-2211  
**Web:** <http://en.fcfc-plastics.com/>

### Distributor

#### **Chase Plastic Services, Inc.**

*Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>*  
**Telephone:** 800-232-4273  
**Web:** <http://www.chaseplastics.com/>  
**Availability:** North America

#### **Click Plastics AG**

*Click Plastics AG is a Pan European distribution company. Contact Click Plastics for availability of individual products by country.*  
**Telephone:** +49-6251-770-690-0  
**Web:** <http://www.clickplastics.com>  
**Availability:** Germany

#### **POLYMIX**

*POLYMIX is a Pan European distribution company. Contact POLYMIX for availability of individual products by country.*  
**Telephone:** +33-3-8920-1380  
**Web:** <http://www.polymix.eu/>  
**Availability:** Algeria, Belgium, Croatia, France, Luxembourg, Morocco, Netherlands, Portugal, Romania, Serbia, Slovenia, Spain, Tunisia

#### **PolySource**

*PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>*  
**Telephone:** 816-540-5300  
**Web:** <http://www.polysource.net/>  
**Availability:** Canada, Mexico, United States

#### **QTM**

**Telephone:** 714-575-5000  
**Web:** <https://www.qtmi.com/>  
**Availability:** North America