

# GPPC ABS D-150

Acrylonitrile Butadiene Styrene

GPPC Chemical Co., Ltd.

## Message:

GPPC ABS D-150 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or North America for injection molding.

Important attributes of GPPC ABS D-150 are:

- Flame Rated
- REACH Compliant
- RoHS Compliant

| General Information                                              |                      |          |             |
|------------------------------------------------------------------|----------------------|----------|-------------|
| UL YellowCard                                                    | E88637-252426        |          |             |
| Features                                                         | General Purpose      |          |             |
| Agency Ratings                                                   | CSA LS103112         |          |             |
|                                                                  | EC 1907/2006 (REACH) |          |             |
|                                                                  |                      |          |             |
| RoHS Compliance                                                  | RoHS Compliant       |          |             |
| UL File Number                                                   | E88637               |          |             |
| Processing Method                                                | Injection Molding    |          |             |
| Physical                                                         | Nominal Value        | Unit     | Test Method |
| Specific Gravity                                                 | 1.05                 | g/cm³    | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                                        |                      |          |             |
| 200°C/5.0 kg                                                     | 2.4                  | g/10 min | ASTM D1238  |
| 220°C/10.0 kg                                                    | 27                   | g/10 min | ISO 1133    |
| Hardness                                                         | Nominal Value        | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                                      | 110                  |          | ASTM D785   |
| Mechanical                                                       | Nominal Value        | Unit     | Test Method |
| Tensile Strength <sup>1</sup> (3.18 mm)                          | 48.1                 | MPa      | ASTM D638   |
| Flexural Modulus <sup>2</sup> (3.18 mm)                          | 2450                 | MPa      | ASTM D790   |
| Flexural Strength <sup>3</sup> (3.18 mm)                         | 78.5                 | MPa      | ASTM D790   |
| Impact                                                           | Nominal Value        | Unit     | Test Method |
| Notched Izod Impact                                              |                      |          | ASTM D256   |
| 3.18 mm                                                          | 200                  | J/m      |             |
| 6.35 mm                                                          | 200                  | J/m      |             |
| Thermal                                                          | Nominal Value        | Unit     | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm) | 89.0                 | °C       | ASTM D648   |
| Flammability                                                     | Nominal Value        |          | Test Method |
| Flame Rating                                                     |                      |          | UL 94       |
| 1.59 mm                                                          | HB                   |          |             |
| 3.18 mm                                                          | HB                   |          |             |
| Injection                                                        | Nominal Value        | Unit     |             |

|                        |              |    |
|------------------------|--------------|----|
| Drying Temperature     | 80.0 to 90.0 | °C |
| Processing (Melt) Temp | 180 to 240   | °C |
| Mold Temperature       | 40.0 to 80.0 | °C |
| NOTE                   |              |    |
| 1.                     | 50 mm/min    |    |
| 2.                     | 15 mm/min    |    |
| 3.                     | 15 mm/min    |    |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

