

# GPPC SAN D-12

Styrene Acrylonitrile  
GPPC Chemical Co., Ltd.

Message:

GPPC SAN D-12 is a Styrene Acrylonitrile (SAN) material. It is available in Asia Pacific or North America for injection molding.  
Important attributes of GPPC SAN D-12 are:  
Flame Rated  
High Flow

| General Information                                              |                   |                   |             |
|------------------------------------------------------------------|-------------------|-------------------|-------------|
| UL YellowCard                                                    | E88637-252444     |                   |             |
| Features                                                         | High Flow         |                   |             |
| Agency Ratings                                                   | CSA LS103112      |                   |             |
| UL File Number                                                   | E88637            |                   |             |
| Processing Method                                                | Injection Molding |                   |             |
| Physical                                                         | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                                 | 1.07              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                                        |                   |                   |             |
| 200°C/5.0 kg                                                     | 4.0               | g/10 min          | ASTM D1238  |
| 220°C/10.0 kg                                                    | 40                | g/10 min          | ISO 1133    |
| Hardness                                                         | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                                      | 80                |                   | ASTM D785   |
| Mechanical                                                       | Nominal Value     | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (3.18 mm)                          | 68.6              | MPa               | ASTM D638   |
| Flexural Modulus <sup>2</sup> (3.18 mm)                          | 3530              | MPa               | ASTM D790   |
| Flexural Strength <sup>3</sup> (3.18 mm)                         | 96.1              | MPa               | ASTM D790   |
| Impact                                                           | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact                                              |                   |                   | ASTM D256   |
| 3.18 mm                                                          | 18                | J/m               |             |
| 6.35 mm                                                          | 17                | J/m               |             |
| Thermal                                                          | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm) | 93.0              | °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                                               | 85.0 to 100       | °C                |             |
| Processing (Melt) Temp                                           | 200 to 250        | °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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