

# ESTADIENE 1218 V0

Acrylonitrile Butadiene Styrene

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## Message:

ESTADIENE 1218 V0 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Europe. Applications of ESTADIENE 1218 V0 include electrical/electronic applications and furniture.

Characteristics include:

- Flame Rated
- Flame Retardant
- Good Aesthetics
- Good Processability
- Halogen Free

| General Information                       |                                    |                   |             |
|-------------------------------------------|------------------------------------|-------------------|-------------|
| UL YellowCard                             | E194157-227561                     |                   |             |
| Features                                  | Bromine Free                       |                   |             |
|                                           | Flame Retardant                    |                   |             |
|                                           | Good Impact Resistance             |                   |             |
|                                           | Good Processability                |                   |             |
|                                           | Good Surface Finish                |                   |             |
|                                           | High Heat Resistance               |                   |             |
| Uses                                      | Electrical/Electronic Applications |                   |             |
|                                           | Furniture                          |                   |             |
| Forms                                     | Pellets                            |                   |             |
| Physical                                  | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                          | 1.22                               | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 25                                 | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                  | 0.30 to 0.60                       | %                 | ASTM D955   |
| Mechanical                                | Nominal Value                      | Unit              | Test Method |
| Tensile Strength                          |                                    |                   | ASTM D638   |
| Yield                                     | 40.0                               | MPa               |             |
| Break                                     | 30.0                               | MPa               |             |
| Tensile Elongation (Break)                | 5.0                                | %                 | ASTM D638   |
| Flexural Modulus                          | 2500                               | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact                       |                                    |                   | ASTM D256   |
| 0°C                                       | 90                                 | J/m               |             |
| 23°C                                      | 110                                | J/m               |             |
| Thermal                                   | Nominal Value                      | Unit              | Test Method |
| Vicat Softening Temperature               |                                    |                   |             |

| --                                       | 104                               | °C   | ASTM D1525 <sup>1</sup> |
|------------------------------------------|-----------------------------------|------|-------------------------|
| --                                       | 94.0                              | °C   | ASTM D1525 <sup>2</sup> |
| Flammability                             | Nominal Value                     | Unit | Test Method             |
| Flame Rating                             |                                   |      | UL 94                   |
| 1.60 mm                                  | V-0                               |      |                         |
| 3.20 mm                                  | V-0                               |      |                         |
| Glow Wire Ignition Temperature (2.00 mm) | 960                               | °C   | IEC 60695-2-13          |
| NOTE                                     |                                   |      |                         |
| 1.                                       | Rate A (50°C/h), Loading 1 (10 N) |      |                         |
| 2.                                       | Rate A (50°C/h), Loading 2 (50 N) |      |                         |

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