

# Solef® 20808

Polyvinylidene Fluoride  
Solvay Specialty Polymers

Message:

Solef® 20808 is a Polyvinylidene Fluoride (PVDF) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Important attributes of Solef® 20808 are:  
Copolymer  
Low Viscosity

| General Information |               |  |  |
|---------------------|---------------|--|--|
| Features            | Copolymer     |  |  |
|                     | Low Viscosity |  |  |

| Physical                                          | Nominal Value    | Unit              | Test Method |
|---------------------------------------------------|------------------|-------------------|-------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         | 5.4              | g/10 min          | ASTM D1238  |
| Water Absorption (23°C, 24 hr)                    | < 0.040          | %                 | ISO 62      |
| Density                                           | 1.783            | g/cm <sup>3</sup> | ISO 1183    |
| Hardness - Shore D (2.00 mm)                      | 71.0             |                   | ASTM D2240  |
| Abrasion Resistance                               | 29.0             | mg                | ASTM D4060  |
| Coefficient of Friction - dynamic                 | 0.280            |                   | ASTM D1894  |
| Izod Impact - (notched V10 mm at 23°C, 4mm thick) | 86.0             | J/m               | ASTM D256   |
| Coefficient of Linear Thermal Expansion           | 1.4E-4 to 1.6E-4 | cm/cm/°C          | ASTM D696   |
| Crystallization Heat                              | 35.0             | J/g               | ASTM D3417  |
| Crystallization Point                             | 120              | °C                | ASTM D3418  |
| Glass Transition Temperature - (Tg)               | -50.0            | °C                | ASTM D4065  |
| Heat of Fusion                                    | 35.0             | J/g               | ASTM D3418  |
| Thermal Stability - (weight loss 1% in air)       | 410              | °C                |             |
| Dielectric Constant - at 1MHz                     | 6.80             |                   | ASTM D150   |
| Flammability                                      | V-0              |                   | UL 94       |

| Mechanical                          | Nominal Value | Unit | Test Method |
|-------------------------------------|---------------|------|-------------|
| Tensile Modulus <sup>1</sup> (23°C) | 1080          | MPa  | ASTM D638   |
| Tensile Strength <sup>2</sup>       |               |      | ASTM D638   |
| Yield, 23°C                         | 33.0          | MPa  |             |
| Break, 23°C                         | 56.0          | MPa  |             |
| Tensile Elongation <sup>3</sup>     |               |      | ASTM D638   |
| Yield, 23°C                         | 10            | %    |             |
| Break, 23°C                         | 600           | %    |             |

| Thermal             | Nominal Value | Unit | Test Method |
|---------------------|---------------|------|-------------|
| Melting Temperature | 148           | °C   | ASTM D3418  |
| Specific Heat       |               |      | ASTM C351   |

|                                 |                           |         |             |
|---------------------------------|---------------------------|---------|-------------|
| 23°C                            | 1200                      | J/kg/°C |             |
| 100°C                           | 1600                      | J/kg/°C |             |
| Thermal Conductivity (23°C)     | 0.20                      | W/m/K   | ASTM C177   |
| Electrical                      | Nominal Value             | Unit    | Test Method |
| Surface Resistivity             | > 1.0E+14                 | ohms    | ASTM D257   |
| Volume Resistivity <sup>4</sup> | > 1.0E+14                 | ohms·cm | ASTM D257   |
| Flammability                    | Nominal Value             | Unit    | Test Method |
| Oxygen Index (3.00 mm)          | 44                        | %       | ASTM D2863  |
| NOTE                            |                           |         |             |
| 1.                              | 1.0 mm/min                |         |             |
| 2.                              | 50 mm/min                 |         |             |
| 3.                              | 50 mm/min                 |         |             |
| 4.                              | 10 mA after 2 min at 23°C |         |             |

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