

# OP - ABS ABS FR 15SS

Acrylonitrile Butadiene Styrene

Oxford Polymers

Message:

EMI / ESD SHIELDING

| General Information                                                                                                   |                                             |                   |             |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                                                                                | Stainless steel fiber, 15% filler by weight |                   |             |
| Features                                                                                                              | Flame retardancy                            |                   |             |
| Forms                                                                                                                 | Particle                                    |                   |             |
| Processing Method                                                                                                     | Injection molding                           |                   |             |
| Physical                                                                                                              | Nominal Value                               | Unit              | Test Method |
| Specific Gravity                                                                                                      | 1.50                                        | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)                                                                              | 15                                          | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                                                                                              | 0.20 - 0.30                                 | %                 | ASTM D955   |
| Mechanical                                                                                                            | Nominal Value                               | Unit              | Test Method |
| Tensile Strength                                                                                                      |                                             |                   | ASTM D638   |
| Yield                                                                                                                 | 28.3                                        | MPa               | ASTM D638   |
| Fracture                                                                                                              | 28.3                                        | MPa               | ASTM D638   |
| Flexural Modulus                                                                                                      | 2830                                        | MPa               | ASTM D790   |
| Flexural Strength                                                                                                     | 40.0                                        | MPa               | ASTM D790   |
| Impact                                                                                                                | Nominal Value                               | Unit              | Test Method |
| Notched Izod Impact (4°C)                                                                                             | 32                                          | J/m               | ASTM D256   |
| Thermal                                                                                                               | Nominal Value                               | Unit              | Test Method |
| Deflection Temperature Under Load                                                                                     |                                             |                   | ASTM D648   |
| 0.45 MPa, unannealed, 3.18mm                                                                                          | 104                                         | °C                | ASTM D648   |
| 1.8 MPa, unannealed, 3.18mm                                                                                           | 90.6                                        | °C                | ASTM D648   |
| Electrical                                                                                                            | Nominal Value                               | Unit              | Test Method |
| Surface Resistivity                                                                                                   | 1.0E+2                                      | ohms              | ASTM D257   |
| Flammability                                                                                                          | Nominal Value                               | Unit              | Test Method |
| Flame Rating                                                                                                          |                                             |                   | UL 94       |
| 1.59 mm                                                                                                               | V-0                                         |                   | UL 94       |
| 3.18 mm                                                                                                               | V-0                                         |                   | UL 94       |
| Additional Information                                                                                                |                                             |                   |             |
| Melt Mass- Flow Rate (MFR), ASTM D1238, 230°C/ 3.8kg: 10 to 20 g/10 minSurface Resitivity, ASTM D257: 1E1 to 1E2 ohms |                                             |                   |             |
| Injection                                                                                                             | Nominal Value                               | Unit              |             |
| Drying Temperature                                                                                                    | 82.2                                        | °C                |             |
| Drying Time                                                                                                           | 3.0 - 4.0                                   | hr                |             |
| Rear Temperature                                                                                                      | 188 - 210                                   | °C                |             |
| Middle Temperature                                                                                                    | 204 - 227                                   | °C                |             |

|                        |             |    |
|------------------------|-------------|----|
| Front Temperature      | 216 - 249   | °C |
| Processing (Melt) Temp | 218 - 249   | °C |
| Mold Temperature       | 48.9 - 82.2 | °C |

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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

