

# Advanced Composites SA-15NF

Polypropylene  
Advanced Composites, Inc.

Message:  
Advanced Composites SA-15NF is a polypropylene product. It is available in North America. The main characteristics are: high rigidity.

| General Information                                                                      |                |                   |             |
|------------------------------------------------------------------------------------------|----------------|-------------------|-------------|
| Features                                                                                 | Rigidity, high |                   |             |
| Forms                                                                                    | Particle       |                   |             |
| Physical                                                                                 | Nominal Value  | Unit              | Test Method |
| Specific Gravity                                                                         | 0.980          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                                                | 24             | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.00 mm)                                                       | 1.2 - 1.5      | %                 | ASTM D955   |
| Hardness                                                                                 | Nominal Value  | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                                                              | 94             |                   | ASTM D785   |
| Mechanical                                                                               | Nominal Value  | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield)                                                    | 28.2           | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                                                  | 50             | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup>                                                            | 2000           | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup>                                                           | 37.0           | MPa               | ASTM D790   |
| Impact                                                                                   | Nominal Value  | Unit              | Test Method |
| Notched Izod Impact (23°C)                                                               | 56             | J/m               | ASTM D256   |
| Thermal                                                                                  | Nominal Value  | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed)                                 | 125            | °C                | ASTM D648   |
| Injection                                                                                | Nominal Value  | Unit              |             |
| Drying Temperature                                                                       | 100            | °C                |             |
| Drying Time                                                                              | 2.0 - 4.0      | hr                |             |
| Rear Temperature                                                                         | 191            | °C                |             |
| Middle Temperature                                                                       | 199 - 210      | °C                |             |
| Front Temperature                                                                        | 221            | °C                |             |
| Nozzle Temperature                                                                       | 216            | °C                |             |
| Processing (Melt) Temp                                                                   | 193 - 227      | °C                |             |
| Mold Temperature                                                                         | 26.7 - 43.3    | °C                |             |
| Injection Rate                                                                           | Slow-Moderate  |                   |             |
| Cushion                                                                                  | 10.0 - 20.0    | mm                |             |
| Injection instructions                                                                   |                |                   |             |
| Screw RPM: 1 to 2 secs before mold openInjection Pressure: 50 to 60% of machine capacity |                |                   |             |
| NOTE                                                                                     |                |                   |             |
| 1.                                                                                       | 50 mm/min      |                   |             |

|    |            |
|----|------------|
| 2. | 50 mm/min  |
| 3. | 2.0 mm/min |
| 4. | 2.0 mm/min |

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#### Recommended distributors for this material

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