

# Zytel® FR95G25V0NH NC010

NYLON RESIN  
DuPont Performance Polymers

Message:  
25% Glass Reinforced, Flame Retardant, Polyamide 66

| General Information                     |           |                                  |                   |             |
|-----------------------------------------|-----------|----------------------------------|-------------------|-------------|
| UL YellowCard                           |           | E41938-102260545                 |                   |             |
| Filler / Reinforcement                  |           | Glass Fiber,25% Filler by Weight |                   |             |
| Agency Ratings                          |           | UL Unspecified Rating            |                   |             |
| Part Marking Code (ISO 11469)           |           | >PA-GF25FR<                      |                   |             |
| Resin ID (ISO 1043)                     |           | PA-GF25FR                        |                   |             |
| Physical                                | Dry       | Conditioned                      | Unit              | Test Method |
| Density                                 | 1.40      | --                               | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                       |           |                                  |                   | ISO 294-4   |
| Across Flow                             | 0.60      | --                               | %                 |             |
| Flow                                    | 0.10      | --                               | %                 |             |
| Water Absorption (23°C, 24 hr, 2.00 mm) | 4.0       | --                               | %                 | ISO 62      |
| Mechanical                              | Dry       | Conditioned                      | Unit              | Test Method |
| Tensile Modulus                         | 8900      | 8700                             | MPa               | ISO 527-2   |
| Tensile Stress (Break)                  | 109       | 90.0                             | MPa               | ISO 527-2   |
| Tensile Strain (Break)                  | 2.2       | 2.2                              | %                 | ISO 527-2   |
| Impact                                  | Dry       | Conditioned                      | Unit              | Test Method |
| Charpy Notched Impact Strength          |           |                                  |                   | ISO 179/1eA |
| -40°C                                   | 4.5       | --                               | kJ/m <sup>2</sup> |             |
| -30°C                                   | 4.5       | --                               | kJ/m <sup>2</sup> |             |
| 23°C                                    | 4.6       | --                               | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength (23°C) | 35        | 31                               | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                 | Dry       | Conditioned                      | Unit              | Test Method |
| Melting Temperature <sup>1</sup>        | 267       | --                               | °C                | ISO 11357-3 |
| Temperature Index                       |           |                                  |                   | IEC 60216   |
| Tensile Strength, 20000 hr              | 160       | --                               | °C                |             |
| Tensile Strength, 5000 hr               | 190       | --                               | °C                |             |
| Electrical                              | Dry       | Conditioned                      | Unit              | Test Method |
| Surface Resistivity                     | --        | 8.0E+14                          | ohms              | IEC 60093   |
| Volume Resistivity                      | > 1.0E+15 | 8.0E+13                          | ohms·cm           | IEC 60093   |
| Electric Strength                       | 37        | 37                               | kV/mm             | IEC 60243-1 |

|                             |          |             |      |                      |
|-----------------------------|----------|-------------|------|----------------------|
| Comparative Tracking Index  | 600      | --          | V    | IEC 60112            |
| Flammability                | Dry      | Conditioned | Unit | Test Method          |
| Flammability Classification |          |             |      | IEC 60695-11-10, -20 |
| 0.400 mm                    | V-0      | --          |      |                      |
| 1.50 mm                     | V-0      | --          |      |                      |
| Oxygen Index                | 32       | --          | %    | ISO 4589-2           |
| NOTE                        |          |             |      |                      |
| 1.                          | 10°C/min |             |      |                      |

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