

# Fusabond® N 525

Ethylene Copolymer

DuPont Packaging & Industrial Polymers

## Message:

DuPont™ Fusabond® N525 is an anhydride modified ethylene copolymer.

DuPont™ Fusabond® N525 can only be used in the following applications:

- (1) polyamide (nylon) blends
- (2) blends for golf ball components
- (3) blends for "compatibilizing flame retardant fillers in non-halogen flame retardant polyolefin-based wire and cable compounds"

| General Information                       |                           |                   |                      |
|-------------------------------------------|---------------------------|-------------------|----------------------|
| Features                                  | Copolymer                 |                   |                      |
| Uses                                      | Blending                  |                   |                      |
|                                           | Plastics Modification     |                   |                      |
|                                           | Wire & Cable Applications |                   |                      |
| Forms                                     | Pellets                   |                   |                      |
| Physical                                  | Nominal Value             | Unit              | Test Method          |
| Specific Gravity                          | 0.880                     | g/cm <sup>3</sup> | ASTM D792, ISO 1183  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 3.7                       | g/10 min          | ASTM D1238, ISO 1133 |
| Hardness                                  | Nominal Value             | Unit              | Test Method          |
| Durometer Hardness (Shore D)              | 30                        |                   | ASTM D2240, ISO 868  |
| Mechanical                                | Nominal Value             | Unit              | Test Method          |
| Tensile Strength                          |                           |                   |                      |
| Break, 20°C <sup>1</sup>                  | 14.4                      | MPa               | ASTM D638            |
| Break, 23°C <sup>2</sup>                  | 6.43                      | MPa               | ASTM D638            |
| Break, 20°C <sup>3</sup>                  | 14.4                      | MPa               | ISO 527-2/50         |
| Break, 23°C <sup>4</sup>                  | 6.43                      | MPa               | ISO 527-2/500        |
| Tensile Elongation                        |                           |                   |                      |
| Break, 23°C <sup>5</sup>                  | 590                       | %                 | ASTM D638            |
| Break, 23°C <sup>6</sup>                  | 550                       | %                 | ASTM D638            |
| Break, 23°C <sup>7</sup>                  | 590                       | %                 | ISO 527-2/50         |
| Break, 23°C <sup>8</sup>                  | 550                       | %                 | ISO 527-2/500        |
| Flexural Modulus <sup>9</sup> (23°C)      | 22.5                      | MPa               | ASTM D790            |
| Thermal                                   | Nominal Value             | Unit              | Test Method          |
| Glass Transition Temperature              | -48.0                     | °C                | ASTM D3418           |
| Vicat Softening Temperature               | 42.0                      | °C                | ASTM D1525, ISO 306  |
| Peak Melting Temperature                  |                           |                   |                      |
| --                                        | 53.9                      | °C                | ASTM D3418           |
| --                                        | 54.0                      | °C                | ISO 3146             |

|                                        |                     |      |            |
|----------------------------------------|---------------------|------|------------|
| Peak Crystallization Temperature (DSC) | 35.0                | °C   | ASTM D3418 |
| Additional Information                 | Nominal Value       | Unit |            |
| Maximum Processing Temperature         | 290                 | °C   |            |
| NOTE                                   |                     |      |            |
| 1.                                     | Type IV, 50 mm/min  |      |            |
| 2.                                     | Type IV, 500 mm/min |      |            |
| 3.                                     | Type IV             |      |            |
| 4.                                     | Type IV             |      |            |
| 5.                                     | Type IV, 50 mm/min  |      |            |
| 6.                                     | Type IV, 500 mm/min |      |            |
| 7.                                     | Type IV             |      |            |
| 8.                                     | Type IV             |      |            |
| 9.                                     | 1.3 mm/min          |      |            |

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