

# Hytrel® 7246HS NC010

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

72 Shore D High Performance Polyester Elastomer with Heat Ageing Protection

| General Information           |                                                        |                   |             |
|-------------------------------|--------------------------------------------------------|-------------------|-------------|
| Additive                      | Heat Stabilizer                                        |                   |             |
|                               | UV Stabilizer                                          |                   |             |
| Features                      | Heat Stabilized                                        |                   |             |
| Uses                          | Film                                                   |                   |             |
|                               | Profiles                                               |                   |             |
|                               | Sheet                                                  |                   |             |
| Forms                         | Pellets                                                |                   |             |
| Processing Method             | Casting                                                |                   |             |
|                               | Extrusion                                              |                   |             |
|                               | Film Extrusion                                         |                   |             |
|                               | Injection Molding                                      |                   |             |
|                               | Profile Extrusion                                      |                   |             |
|                               | Sheet Extrusion                                        |                   |             |
|                               | Thermoforming                                          |                   |             |
| Multi-Point Data              | Creep Modulus vs. Time (ISO 11403-1)                   |                   |             |
|                               | Isochronous Stress vs. Strain (ISO 11403-1)            |                   |             |
|                               | Isothermal Stress vs. Strain (TPE) (ISO 11403-1)       |                   |             |
|                               | Shear Modulus vs. Temperature (ISO 11403-1)            |                   |             |
|                               | Shear Stress vs. Shear Rate (ISO 11403-1)              |                   |             |
|                               | Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1) |                   |             |
| Part Marking Code (ISO 11469) | >TPC-ET<                                               |                   |             |
| Resin ID (ISO 1043)           | TPC-ET                                                 |                   |             |
| Physical                      | Nominal Value                                          | Unit              | Test Method |
| Density                       | 1.25                                                   | g/cm <sup>3</sup> | ISO 1183    |
| Hardness                      | Nominal Value                                          | Unit              | Test Method |
| Shore Hardness                |                                                        |                   | ISO 868     |
| Shore D                       | 70                                                     |                   |             |
| Shore D, 15 sec               | 66                                                     |                   |             |
| Mechanical                    | Nominal Value                                          | Unit              | Test Method |

|                                  |               |      |             |
|----------------------------------|---------------|------|-------------|
| Tensile Modulus                  | 430           | MPa  | ISO 527-2   |
| Tensile Stress                   |               |      | ISO 527-2   |
| Yield                            | 29.0          | MPa  |             |
| Break                            | 52.0          | MPa  |             |
| 10% Strain                       | 23.0          | MPa  |             |
| 50% Strain                       | 24.0          | MPa  |             |
| Tensile Strain                   |               |      | ISO 527-2   |
| Yield                            | 22            | %    |             |
| Break                            | > 300         | %    |             |
| Nominal Tensile Strain at Break  | 560           | %    | ISO 527-2   |
| Flexural Modulus                 | 500           | MPa  | ISO 178     |
| Elastomers                       | Nominal Value | Unit | Test Method |
| Tear Strength                    |               |      | ISO 34-1    |
| Across Flow                      | 170           | kN/m |             |
| Flow                             | 180           | kN/m |             |
| Thermal                          | Nominal Value | Unit | Test Method |
| Brittleness Temperature          | -65.0         | °C   | ISO 974     |
| Melting Temperature <sup>1</sup> | 216           | °C   | ISO 11357-3 |
| NOTE                             |               |      |             |
| 1.                               | 10°C/min      |      |             |

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