

# UBE Polyamide Elastomer XPA 9048F1

Thermoplastic Polyamide Elastomer

UBE Industries, Ltd.

Message:

Injection, Extrusion

| General Information                                |                   |                   |                 |
|----------------------------------------------------|-------------------|-------------------|-----------------|
| Forms                                              | Pellets           |                   |                 |
| Processing Method                                  | Extrusion         |                   |                 |
|                                                    | Injection Molding |                   |                 |
| Part Marking Code                                  | >TPA-ET<          |                   |                 |
| Physical                                           | Nominal Value     | Unit              | Test Method     |
| Density                                            | 1.02              | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                                  |                   |                   | Internal Method |
| Across Flow                                        | 0.80              | %                 |                 |
| Flow                                               | 0.40              | %                 |                 |
| Water Absorption (Equilibrium, 23°C, 50% RH)       | 2.4               | %                 | Internal Method |
| Mechanical                                         | Nominal Value     | Unit              | Test Method     |
| Tensile Modulus                                    | 200               | MPa               | ISO 527-2       |
| Tensile Stress (Yield)                             | 12.0              | MPa               | ISO 527-2       |
| Tensile Strain (Break)                             | > 400             | %                 | ISO 527-2       |
| Flexural Modulus                                   | 150               | MPa               | ISO 178         |
| Flexural Stress                                    | 9.00              | MPa               | ISO 178         |
| Impact                                             | Nominal Value     | Unit              | Test Method     |
| Charpy Unnotched Impact Strength                   | No Break          |                   | ISO 179         |
| Thermal                                            | Nominal Value     | Unit              | Test Method     |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 67.0              | °C                | ISO 75-2/B      |
| CLTE - Flow                                        | 1.5E-4            | cm/cm/°C          | ISO 11359-2     |

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