MULTIFLEX™ TES 2603 SI1

STYRENIC THERMOPLASTIC ELASTOMER

Rheological properties

Melt volume-flow rate	8	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	5	kg	ISO 1133
Moulding shrinkage, parallel	1.1	%	ISO 294-4, 2577
Postmoulding shrinkage, parallel, 48h at 80°C	1.6	%	ISO 294-4

Typical mechanical properties

Stress at break	26	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	>300	%	ISO 527-1/-2 or ISO 37
Flexural Modulus	270	MPa	ISO 178
Shore D hardness, 15s	45		ISO 48-4 / ISO 868
Tear strength, parallel	105	kN/m	ISO 34-1

Thermal properties

Coeff. of linear therm. expansion, parallel	1.3	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	2.7	E-6/K	ISO 11359-1/-2

Other properties

Density	900	kg/m³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	65	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Melt Temperature Optimum	260	°C
Mold Temperature Optimum	45	°C
Min. mould temperature	40	°C
Max. mould temperature	50	°C
Injection speed	High	mm/s

Storage and stability

Shelf life	1800	days

Characteristics

Compatibility	Polyolefins

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Additional information

Injection molding	Drying before moulding is normally not required, but may be needed if the product is stored in a high humidity environment. Lower temperature on the moving part of the mould is prefered.

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