

DuPont Mobility and Materials Multiflex™ TES A8010 GSA1 NAT Styrenic Thermoplastic Elastomer


Categories: [Polymer](#); [Thermoplastic](#); [Elastomer, TPE](#); [Styrenic TPE](#)

Material Notes: Thermoplastic Elastomer based Styrenic

Information provided by DuPont.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Spiral Flow	65.0 cm @Pressure 5.00 MPa	25.6 in @Pressure 725 psi	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	3s; ISO 48-4
Tensile Strength at Break	7.90 MPa	1150 psi	ISO 527-1/-2 or ISO 37
Tensile Stress at Strain 	3.20 MPa @Strain 100 %	464 psi @Strain 100 %	ISO 527-1/-2 or ISO 37
	4.10 MPa @Strain 300 %	595 psi @Strain 300 %	ISO 527-1/-2 or ISO 37
Elongation at Break	>= 300 %	>= 300 %	ISO 527-1/-2 or ISO 37
Tear Strength	34.0 kN/m	194 pli	parallel; ISO 34-1
Compression Set	35 % @Temperature 23.0 °C	35 % @Temperature 73.4 °F	ISO 815
	55 % @Temperature 70.0 °C,	55 % @Temperature 158 °F,	ISO 815
	Time 86400 sec	Time 24.0 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	200 °C	392 °F	Optimum, Injection
Mold Temperature	40.0 °C	104 °F	Optimum, Injection
	20.0 - 60.0 °C	68.0 - 140 °F	Injection
Back Pressure	1.00 MPa	145 psi	Injection

Descriptive Properties		
Compatibility	Polyolefins	
Drying Recommended	no	Injection
Hold pressure	as low as possible	Injection
	as low as possible	Injection
Injection speed	High	
Polymer	TPS	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.