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/in³	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, Time 86400 sec	55 % @Temperature 158 °F, Time 24.0 hour	ISO 815

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		