MULTIFLEX™ TES A7512 E Alliance Black

STYRENIC THERMOPLASTIC ELASTOMER

Multiflex™ TES are thermoplastic elastomers based styrenic, combining soft touch, elasticity and compression set performances.
Compatibility with polyolefin enables bi-material parts (continuous process or cold insert).

Multiflex™ TES A7512 E Alliance black is designed to provide a low coefficient of friction, a very high flow, good aesthethic performance and is UV stabilized

Product information

Colour	Black	

Rheological properties

Flow length	780	mm
Flow length - pressure	5	MPa

Typical mechanical properties

Stress at 20% elongation	2.1	MPa	ISO 527-1/-2 or ISO 37
Stress at 100% elongation	2.7	MPa	ISO 527-1/-2 or ISO 37
Stress at 300% elongation	3.5	MPa	ISO 527-1/-2 or ISO 37
Stress at break	9	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	>300	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	75		ISO 48-4 / ISO 868
Compression set at 23°C, 24h	33	%	ISO 815
Compression set at 70°C, 24h	55	%	ISO 815
Tear strength, normal	37	kN/m	ISO 34-1

Other properties

Density	990	kg/m³	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	90	°C
Drying Time, Dehumidified Dryer	0 - 1	h
Melt Temperature Optimum	200	°C
Mold Temperature Optimum	40	°C
Min. mould temperature	20	°C
Max. mould temperature	60	°C
Hold pressure range	20 to 40% of max injection pressure	MPa
Back pressure	1	MPa
Injection speed	High	mm/s

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Extrusion

Drying Temperature	80 - 90 °C
Drying Time, Dehumidified Dryer	0 - 1 h
Melt Temperature Optimum	190 °C
Melt Temperature Range	180 - 200 °C

Characteristics

Compatibility	Polyolefins

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