

MULTIFLEX™ TES A5010 GSA1 NAT

Technical DataSheet | Supplied by DuPont

MULTIFLEX™ TES A5010 GSA1 NAT by DuPont is a recyclable, general purpose thermoplastic elastomer (TPE). Contains anti-blocking additive for polyethylene (PE) film extrusion, anti-slip, processing aid, anti-fibrillation additive for polypropylene (PP) yarn extrusion and weaving, stiffening agent for polypropylene (PP) films and plaques. Is a soft touch, easy to color, halogen free, oxygen scavenger, breathable, heat weldable (corners), and heat stabilized grade. Exhibits UV resistance and very high flow. Possesses lower coefficient of friction, excellent mechanical properties at elevated temperature (>90°C), hydrocarbon-, chemical-, tear-, heat-, scratch-, mar- and fluid resistance, low taste, odor and extractables. Shows compatibility with polypropylene (PP) and polyethylene (PE), long term adhesion stability, spinning cycle up to 1600 rpm, improves mold filling, reduces cycle time, durability, good desiccant- and peel properties. Provides lower extruder torque, improved thermal insulation, impact protection, noise and vibration dampening, low and high temperature flexibility. Designed for injection molding method. Possible applications of MULTIFLEX™ TES A5010 GSA1 NAT are health, personal care, houseware, portable electronics, hand & power tools, sports and leisure. Can also be used for electrical protection, wire and cable, packaging, window seals & gaskets, fluid and product delivery. Complies with UL-94 V0 Flame Rating, KTW/A, W270 and W543 “LGA” and is food contact approved (FDA and 2002/72/EU).

Product Type	Unspecified TPE > Unspecified TPE
Appearance	Natural
Product Status	COMMERCIAL
Geographical Availability	Central and Eastern Europe, Western Europe
Applications/ Recommended for	Electrical markets Electronics / Computers Healthcare / Medical Households products/ Consumer Goods > Powertools (drills...) Packaging Sealants, seals & gaskets Sports & Leisures Wiring & Cables Injection molding - thermoplastics
Food contact approval	Yes
Labels/Agency Rating	2002/72/EU UL-94 V0 Flame Rating

Key Features

Adhesion, Good
 Antiblocking
 Chemical resistance, Good
 Colorability, Good
 Durable
 Extractables, Low
 Flexibility, Low Temperature
 Flow, High
 Food contact approved
 Friction, Low
 General purpose
 Halogen Free
 Heat Resistance, High
 Heat stabilized
 Hydrocarbon Resistant
 Impact Resistance, Good
 Noise Damping
 Odor Transfer, Low
 Recyclable
 Scratch Resistance, Good
 Soft
 Taste Transfer, Low
 Tear Strength, Good
 UV Resistance, Good
 Vibration Damping
 Weldable

MULTIFLEX™ TES A5010 GSA1 NAT Properties

Mechanical	Value & Unit	Test Condition	Test Method
Hardness, Shore A	50		
Elongation at Break	> 800 %		
Tensile Strength at Break	> 5 MPa		
Tear Strength	> 20 kN/m		
Compression Set	< 20 %	23°C / 24h	

Physical	Value & Unit	Test Condition	Test Method
Specific Gravity	1.06		

MULTIFLEX[™] TES A5010 GSA1 NAT Processing Guidelines

Injection Molding	Value & Unit	Test Condition	Test Method
Maximum Processing Temperature	100 °C		

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