

Product Information Automotive and Transportation



DOW CORNING

Multiflex® TPO 4404 SI1 Black 28164 Thermoplastic Elastomer

FEATURES & BENEFITS

- Black

APPLICATIONS

- Multiflex® TPO 4404 SI1 Black 28164 is designed for injected molded, paintable airbag covers and inflatable-restraint components

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test*	Property	Unit	Result
ISO 868	Hardness	Sh.D	41
ISO 1183/A	Density	g/cm ³	0.89
ISO 1133	MVR (2.16 kg/230°C)	cm ³ /10 mn	7
MDA 179	Spiral flow condition A	cm	36
ISO 178	Flexural modulus 3 points	MPa	440
ISO 180	Notched Izod Impact at -45°C	KJ/m ²	54
ISO 527-2/5A/500	Tensile strength at break	MPa	14
ISO 527-2/5A/500	Elongation at break	%	175
ISO 34	Tear strength	kN/m	95
ISO 527-2/5A/500	Tensile strength at break at -35°C	MPa	26
ISO 527-2/5A/500	Elongation at break at -35°C	%	50
ISO 34	Tear strength at -35°C	kN/m	162
ISO 178	Flexural modulus 3 points at 85°C	MPa	120
ISO 527-2/5A/500	Tensile strength at break at 85°C	MPa	6
ISO 527-2/5A/500	Elongation at break at 85°C	%	620
ISO 34	Tear strength at 85°C	kN/m	58
ISO 294.4	Shrinkage flow direction at 23°C	%	0.9

*ISO: International Standardization Organization

MDA (Méthode d'Analyse): Issued from ISO Standards

GUIDELINES FOR INJECTION MOLDING

Drying: Multiflex® TPO 4404 SI1 Black 28164 is not moisture sensitive, therefore drying is not needed. However, if this material is stored in high humidity conditions, it is recommended to dry for two hours at max. 80°C.

Barrel temperature °C	Feed Zone	200°C +/-20°C
	Zone 1	210°C +/-20°C
	Zone 2	220°C +/-20°C
	Nozzle	225°C +/-20°C
Back Pressure Bars		10 +/- 5
Injection Speed		medium
Holding Pressure		as low as possible
Mold Temperature °C		30–40°C (fixed part) - 20°C (moving part) ¹

¹Lower T° on moving part is better for easier injection

**HANDLING
PRECAUTIONS
PRODUCT SAFETY
INFORMATION REQUIRED FOR
SAFE USE IS NOT INCLUDED IN
THIS DOCUMENT. BEFORE
HANDLING, READ PRODUCT
AND SAFETY DATA SHEETS
AND CONTAINER LABELS FOR
SAFE USE, PHYSICAL AND
HEALTH HAZARD
INFORMATION. THE SAFETY
DATA SHEET IS AVAILABLE ON
THE DOW CORNING WEBSITE**

USABLE LIFE AND STORAGE

Refer to product label for storage temperature conditions. Containers should be kept tightly closed and kept in cold storage at all times to extend shelf life. Shelf life is indicated by the "Use Before" date found on the product label.

PACKAGING INFORMATION

This product is available in a variety of container sizes. Contact your local Dow Corning sales representative for information about container sizes available in your area.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

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The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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