Tufgen™ 270

Product Description

Thermoplastic Elastomer (TPE), suitable for injection molding and extrusion process. Comply with USP Class IV and ISO 10993. Compatible with major sterilization processes. Overmold with PP substrate.

Key Features and Typical Benefits

- Chemical resistant
- Fatigue resistant
- Good colorability
- Good processability
- Odorless
- Recyclable material
- Resilient
- Weldable

Potential Applications

- Biopharma Tubing
- Medical Devices
- Overmolding

Typical Physical Properties

Appearance	Translucent	
Physical	**Nominal Value/Unit**	**Test Method**
Density	0.890 g/cm^3	ASTM D792
Elastomers	**Nominal Value/Unit**	**Test Method**
Tensile Stress (100% Strain)	4.00 MPa	ASTM D412
Tensile Stress (300% Strain)	5.74 MPa	ASTM D412
Tensile Strength	5.85 MPa	ASTM D412
Tensile Elongation (Break)	330 %	ASTM D412
Hardness	**Nominal Value/Unit**	**Test Method**
Durometer Hardness (Shore A)	66	ASTM D2240
Fill Analysis	**Nominal Value/Unit**	**Test Method**
Apparent Viscosity		ASTM D3835
200 ˚C. 223 sec^-1	255 Pa·s	
200 ˚C. 1340 sec^-1	61.9 Pa·s	

Typical properties are average data and are not to be used as or to develop product specifications.

Processing Information

Extrusion	**Nominal Value/Unit**
Suggested Max Regrind	10%
Cylinder Zone 1 Temp.	175 to 190 ˚C
Cylinder Zone 2 Temp.	180 to 200 ˚C
Cylinder Zone 3 Temp.	185 to 215 ˚C
Cylinder Zone 4 Temp.	190 to 225 ˚C
Die Temperature	190 to 225 ˚C

Typical properties are average data and are not to be used as or to develop product specifications.

General Considerations for Use

Drying is not typically required. Drying temperature is 175˚F (80˚C) for 2 hours if there is surface moisture.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular application(s).

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