

FARAPRENE™ VIBRATION DAMPENING THERMOPLASTIC ELASTOMERS (TPEs)

PRIMEX

COLOR, COMPOUNDING & ADDITIVES

A subsidiary of Primex Plastics Corporation



Faraprene Solutions for Vibration Dampening Applications

For over 25 years Primex Color, Compounding & Additives, PCC&A, (formerly O'Neil Color & Compounding) has produced the most versatile line of Thermoplastic Elastomers (TPEs) for consumer, industrial and OEM applications.

BENEFITS

- Durable in demanding conditions
- Absorb energy and noise
- Improve user experience
- Reduce impact
- Design flexibility
- Minimize motor and engine vibrations

MARKET APPLICATIONS

- Automotive: vibration isolators, grommets, shock absorption pads
- Appliance: vibration pads for electric motors, foot pads for blenders and mixers

Now, as part of the Primex One Company, we're able to leverage our vast manufacturing, personnel, technical and distribution resources to your benefit.

We offer a wide range of TPE grades to meet market needs ranging from general purpose indoor and outdoor products to automotive, industrial and specialty applications. Faraprene TPE compounds are formulated to meet critical performance requirements.

From initial consultation through application development support and final delivery, PCC&A provides cost-effective TPEs with fast turnaround.

MCNA

ISO 9001:2008
Certified
Management Certification
of North America



FARAPRENE™ VIBRATION DAMPENING STANDARD SPECIFICATIONS



Faraprene Vibration Dampening is a 51 Shore A thermoplastic elastomer (TPE), which has been formulated for vibration dampening, elasticity, and resiliency. This material can be produced as a pre-colored compound, natural, or black.

Product Properties (Typical Properties)

| Mechanical | Value | Unit | Method |
|--|-------|--------|-----------|
| Tensile Stress at Break ^{1,2} | 1080 | PSI | ASTM D412 |
| 100% Tensile Modulus ¹ | 152 | PSI | ASTM D412 |
| Elongation at Break ^{1,2} | 918 | % | ASTM D412 |
| Tear Strength ¹ | 132 | Lbf/in | ASTM D624 |

¹ tested in cross flow direction, ² samples did not break

Processing Data (Processing Parameter)

| Injection Molding | Value | Unit |
|----------------------------|---------|------|
| Melt Temperature | 350-420 | F |
| Rear- Zone 1 Temperature | 335-360 | F |
| Middle- Zone 2 Temperature | 340-390 | F |
| Front- Zone 3 Temperature | 350-420 | F |
| Nozzle Temperature | 350-420 | F |
| Mold Temperature | 70-100 | F |
| Backpressure | 15-50 | PSI |
| Screw Speed | 50-130 | RPM |
| Shot to Cylinder Size | 50-80 | % |

| Extrusion | Value | Unit |
|---------------------------|---------|------|
| Melt Temperature | 350-420 | F |
| Rear Zone 1 Temperature | 335-360 | F |
| Middle Zone 2 Temperature | 340-390 | F |
| Front Zone 3 Temperature | 350-410 | F |
| Adapter | 350-420 | F |
| Head | 350-420 | F |
| Die | 350-420 | F |
| Screw Speed | 30-60 | RPM |

The above process conditions are suggested starting points and some deviations may be needed depending on the process / part design.



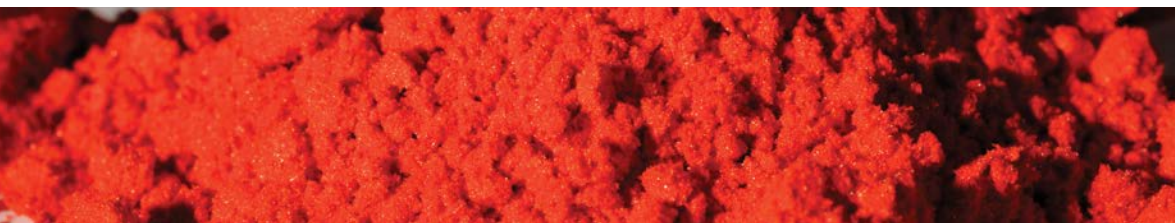
These values are not intended for specification purposes

- (1) Typical values only. Variations within normal tolerances are possible.
- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

Disclaimer: Each user bears full responsibility for making its own determination as to the suitability of each material, product, recommendation or advice set forth by Primex. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Primex materials or products will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Primex's Standard Condition of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Primex. No statement contained herein concerning a possible or suggested use of any material, product or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Primex or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product or design in the infringement of any patent or other intellectual property right.

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Call your Primex representative today to learn about Faraprene Vibration Dampening TPEs.



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