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.

PRIMEX COLOR, COMPOUNDING & ADDITIVES

Garfield, NJ 800.282.7933 **Jasper, TN** 800.234.6159 primexcolor.com

FARAPRENE™ VIBRATION DAMPENING STANDARD SPECIFICATIONS

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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 Modulus1	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.

ONE COMPANY ONE DIRECTION ONE SOLUTION

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.

For further information, please contact Anthony Montalvo at amontalvo@primexplastics.com

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

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Rev 4/18