

FARAPRENE™ WET GRIP THERMOPLASTIC ELASTOMERS (TPEs)

PRIMEX COLOR, COMPOUNDING & ADDITIVES

A subsidiary of Primex Plastics Corporation



Faraprene Solutions for Wet Grip 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

- Addresses problems of slipperiness in soft-touch components
- Retains mechanical performance characteristics in wet/dry conditions
- Available in a multitude of durometers

MARKET APPLICATIONS

- Automotive: door trim handles, instrumentation buttons / knobs compartment liners, non-skid pads
- Appliance: door handles for refrigerators & microwaves, foot pads for mixers & blenders, grips for steam irons, knobs for blenders & coffee makers

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™ WET GRIP

STANDARD SPECIFICATIONS



Faraprene Wet Grip is a 55 Shore A TPE used in injection molding and extrusion applications requiring excellent wet grip performance. This material can be made in natural, black, or pre-colored.

Product Properties (Typical Properties)

Mechanical	Value	Unit	Method
Tensile Stress at Break ^{1,2}	690	PSI	ASTM D412
100% Tensile Modulus ¹	144	PSI	ASTM D412
Elongation at Break ^{1,2}	884	%	ASTM D412
Tear Strength ¹	113	Lbf/in	ASTM D624

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

Physical/Rheological	Value	Unit	Method
Specific Gravity	0.92	-	ASTM D792
Melt Flow Rate, 230 C, 2.16 kg load	11	g/10 min	ASTM D1238
Hardness, 10 sec. Shore A	52	-	ASTM D2240

Processing Data (Processing Parameter)

Injection Molding	Value	Unit
Melt Temperature	370-420	F
Rear- Zone 1 Temperature	335-360	F
Middle-Zone 2 Temperature	350-390	F
Front- Zone 3 Temperature	380-420	F
Nozzle Temperature	380-420	F
Mold Temperature	80-100	F
Backpressure	15-50	PSI
Screw Speed	50-80	RPM
Shot to Cylinder Size	50-80	%

Extrusion	Value	Unit
Melt Temperature	370-420	F
Rear Zone 1 Temperature	335-360	F
Middle Zone 2 Temperature	350-390	F
Front Zone 3 Temperature	380-410	F
Adapter	380-420	F
Head	380-420	F
Die	380-420	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.

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Call your Primex representative today to learn about Faraprene Wet Grip TPEs.



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