



FARAPRENE C100-75A

O'NEIL COLOR & COMPOUNDING

Faraprene C100-75A is a light weight 75 Shore A clear TPE for injection molding and extrusion applications. This material has excellent physical properties, good scratch resistant, and high elasticity. In addition to clear compounds, this material can be made pre-colored or black providing a high or low gloss depending on the grain.

MECHANICAL PROPERTIES

Mechanical	Value	Unit	Method
Tensile Stress, break ^{1,2}	2250	PSI	ASTM D412
100% Modulus (stress at 100% strain) ¹	485	PSI	ASTM D412
Elongation at break ^{1,2}	1000	%	ASTM D412
Tear Strength ¹	275	lbs/in	ASTM D624

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

Physical / Rheological	Value	Unit	Method
Specific Gravity	0.90	-	ASTM D792
Melt Flow Rate, 230°C, 2.16 kg. load	20	g/10 min	ASTM D1238
Hardness, Shore A (10 second)	75	-	ASTM D2240

PROCESSING DATA

Processing Parameter

Injection Molding	Value	Unit
Melt Temperature	340-420	°F
Rear - Zone 1 Temperature	300-360	°F
Middle - Zone 2 Temperature	320-390	°F
Front - Zone 3 Temperature	330-420	°F
Nozzle Temperature	330-420	°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	340-420	°F
Rear Zone 1 Temperature	280-360	°F
Middle Zone 2 Temperature	320-390	°F
Front Zone 3 Temperature	330-410	°F
Adapter	330-420	°F
Head	330-420	°F
Die	330-420	°F

The process conditions listed 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 O'Neil. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating O'Neil 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 O'Neil's Standard Condition of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by O'Neil. 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 O'Neil 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.

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

O'NEIL COLOR & COMPOUNDING
 Garfield, NJ 800.282.7933 Jasper, TN 800.234.6159 oneilcolor.com

Rev 10/16



ISO 9001:2008
 Certified
 Management Certification
 of North America

