



Faraprene 301-40A Natural

40 Shore A TPE for injection molding applications; General Purpose, Natural color (also available as custom colored).

Preliminary Material Properties

Typical Properties (1)			
MECHANICAL	Value	Unit	Method
Tensile Stress, break ¹	562	PSI	ASTM D412
100% Modulus (stress at 100% strain) ¹	155	PSI	ASTM D412
Elongation at break ¹	930	%	ASTM D412
Tear Strength	109	lbs/in	ASTM D624
¹ tested in the cross flow direction			
PHYSICAL/RHEOLOGICAL	Value	Unit	Method
Specific Gravity	1.16	-	ASTM D792
Melt Flow Rate, 230°C, 5.0 kg load	9.0	g/10 min.	ASTM D1238
Hardness, Shore A	39	Shore A	ASTM D2240

Processing Data

Processing Parameter		
INJECTION MOLDING* (overmolding)	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* (coextrusion)	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