

Aaroprene® ATPR 1000 50A

Thermoplastic Elastomer

Aaron Industries Corp.

Message:

Aaroprene® ATPR 1000 50A is a thermoplastic elastomer (TPE) material. This product is available in North America and is processed by film extrusion, extrusion or injection molding.

General Information	
Appearance	Available colors
Forms	Particle
Processing Method	Film extrusion Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998 - 1.10	g/cm ³	ASTM D792

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	90	g/10 min	ASTM D1238
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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.93	MPa	ASTM D412
Taber Abrasion Resistance (1000 Cycles, H-18 Wheel)	345	mg	ASTM D1044

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5.31	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength ¹	31.0	kN/m	ASTM D624

Injection	Nominal Value	Unit
Rear Temperature	79.4	°C
Middle Temperature	177	°C
Front Temperature	193	°C
Nozzle Temperature	199	°C
Injection Pressure	3.45 - 4.83	MPa
Injection Rate	Moderate	
Back Pressure	0.345	MPa
Screw Speed	30	rpm

Injection instructions

Injection Time: 3 sec Hold Time: 5 sec Clamp Time: 10 sec Cycle Time: 20 sec

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	79.4	°C

Cylinder Zone 2 Temp.	149	°C
Cylinder Zone 3 Temp.	149	°C
Cylinder Zone 4 Temp.	149	°C
Cylinder Zone 5 Temp.	149	°C
Melt Temperature	149 - 193	°C
Die Temperature	193	°C

Extrusion instructions

L/D Ratio: 24:1 Low Compression Ratios Deep Flighted Metering Sections Film Extrusion Melt Temperature: 325 to 375°F

NOTE


1. C mould

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Recommended distributors for this material

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