

Aaroprene® ATPR 2000 50A

Thermoplastic Elastomer

Aaron Industries Corp.

Message:

Aaroprene® ATPR 2000 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	0.948 - 1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	12	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.24	MPa	ASTM D412
Taber Abrasion Resistance (1000 Cycles, H-18 Wheel)	290	mg	ASTM D1044

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4.50	MPa	ASTM D412
Tensile Elongation (Break)	800	%	ASTM D412
Tear Strength ¹	19.3	kN/m	ASTM D624

Injection	Nominal Value	Unit
Rear Temperature	79.4	°C
Middle Temperature	210	°C
Front Temperature	227	°C
Nozzle Temperature	235	°C
Injection Pressure	3.45 - 4.83	MPa
Injection Rate	Fast	
Back Pressure	0.345	MPa
Screw Speed	40	rpm

Injection instructions

Injection Time: 1 secHold Time: 5 secClamp Time: 7 secCycle Time: 15 sec

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	79.4	°C
Cylinder Zone 2 Temp.	191	°C

Cylinder Zone 3 Temp.	191	°C
Cylinder Zone 4 Temp.	191	°C
Cylinder Zone 5 Temp.	191	°C
Melt Temperature	191 - 246	°C
Die Temperature	235	°C

Extrusion instructions

L/D Ratio: 24:1Low Compression RatiosDeep Flighted Metering SectionsFilm Extrusion Melt Temperature: 400 to 475°F

NOTE

1.
- C mould

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