

Aaroprene® ATPO 3000 50D

Thermoplastic Polyolefin Elastomer

Aaron Industries Corp.

Message:

Aaroprene® ATPO 3000 50D is a polyolefin thermoplastic elastomer (TPO (POE)) material. This product is available in North America and is processed by extrusion or injection molding.

General Information			
Appearance	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4.14	MPa	ASTM D412
Taber Abrasion Resistance (1000 Cycles, H-18 Wheel)	160	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6.21	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D746
Injection	Nominal Value	Unit	
Rear Temperature	177 - 216	°C	
Middle Temperature	177 - 216	°C	
Front Temperature	177 - 216	°C	
Nozzle Temperature	188 - 221	°C	
Processing (Melt) Temp	182 - 221	°C	
Mold Temperature	10.0 - 65.6	°C	
Back Pressure	0.0689 - 1.03	MPa	
Screw Speed	100 - 200	rpm	
Screw L/D Ratio	20.0:1.0		
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	182 - 204	°C	
Cylinder Zone 2 Temp.	182 - 204	°C	
Cylinder Zone 3 Temp.	188 - 210	°C	

Cylinder Zone 4 Temp.	188 - 210	°C
Melt Temperature	193 - 216	°C
Die Temperature	193 - 216	°C
Take-Off Roll	21.1 - 48.9	°C

Extrusion instructions

Screen Pack: 20 to 60 meshCompression Ratio: 3:1

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