



TPV-55AIM-Blk Thermoplastic Vulcanizate

Product Description	Soft Injection Molding grade used in a wide array of applications.		
Applications	<ul style="list-style-type: none"> • Consumer Products • Soft Grips • Seals & Gaskets 		
General			
Color	• Black		
Form	• Pellet		
Processing Method(s)	• Injection Molding		
Physical	Typical Value	Units	Test Method
Hardness, 15 sec	60	Shore A	ASTM D2240
Specific Gravity	0.95	-	ASTM D792
Mechanical	Typical Value	Units	Test Method
Ultimate Tensile Strength	597 (4.1)	psi (MPa)	ASTM D412
Ultimate Elongation	400	%	ASTM D412
100% Modulus	242 (1.7)	psi (MPa)	ASTM D412
Tear Strength	90 (16)	lbf/in (kN/m)	ASTM D624
Compression Set 158°F (70°C), 22 hrs	25	%	ASTM D395
Heat Aging	Typical Value	Units	
Tensile Strength 302°F (150°C), 168 hrs	-7	Change %	ASTM D573
Elongation 302°F (150°C), 168 hrs	-10	Change %	ASTM D573
Drying Conditions	Typical Value	Units	
Drying Temperature	180	°F	
Drying Time	3	hrs	
Suggested Max Moisture	0.08	%	
Processing Conditions	Typical Value	Units	
Nozzle Temperature	370-430	°F	
Front Temperature	360-400	°F	
Middle Temperature	360-390	°F	
Rear Temperature	350-380	°F	
Mold Temperature	50-125	°F	
Injection Speed	Middle to High		
Vent Depth	0.025	mm	
Mold Shrinkage	1.5 – 2.5	%	

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