

Dynaprene® VE5080A

Thermoplastic Elastomer

Nantex Industry Co., Ltd.

Message:

Dynaprene VE5080A is an unreinforced TPE product for injection moulding in natural colour for Food and Drug Approval (FDA) applications

General Information			
Features	Moisture resistance		
	Highlight		
	Good formability		
	Good chemical resistance		
	Good wear resistance		
	Good weather resistance		
	Heat resistance, high		
	Detergent resistance		
Agency Ratings	FDA not rated		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (100% Strain)	17	%	ASTM D412
Tensile Stress (100% Strain)	3.92	MPa	ASTM D412
Tensile Strength - Across Flow (Yield)	9.99	MPa	ASTM D412
Tensile Elongation - Across Flow (Break)	490	%	ASTM D412
Tear Strength ¹ (23°C)	43.8	kN/m	ASTM D624
Compression Set (100°C, 22 hr)	44	%	ASTM D395B
Aging	Nominal Value	Unit	Test Method
Change in Mass (121°C, 24 hr, in IRM 903 Oil)	65	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	HB		UL 94
Additional Information			
Moisture: 0.03%			

Injection	Nominal Value	Unit
Rear Temperature	180 - 280	°C
Middle Temperature	180 - 280	°C
Front Temperature	180 - 280	°C
Nozzle Temperature	210 - 220	°C
Processing (Melt) Temp	180 - 280	°C
Mold Temperature	10.0 - 70.0	°C
Injection Pressure	50.0 - 120	MPa
Holding Pressure	30.0 - 80.0	MPa
Back Pressure	0.00 - 0.300	MPa
Screw Speed	60 - 120	rpm

NOTE

1. C mould

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