

ENFLEX EA5790A

Thermoplastic Elastomer

ENPLAST Americas, a Ravago Group Company

Message:

90 Shore A TPE, available in black and natural offering high heat performance with excellent oil and fluid resistance. This grade also exhibits high strength, good flexibility and resiliency. Intended for injection molding and extrusion processing. Designed for under the hood applications such as gaskets, grommets, seals, plugs where high heat and oil resistance is required.

General Information			
Features	Low compressive deformability		
	High elasticity		
	High strength		
	Solvent resistance		
	Good UV resistance		
	Recyclable materials		
	Workability, good		
	Good flexibility		
	Good coloring		
	Good adhesion		
	Ozone resistance		
	Alcohol resistance		
	Heat resistance, high		
	Detergent resistance		
	Oil resistance		
	Soft		
	Elastic		
Uses	Plug		
	Washer		
	Washer		
	Seals		
	Parts under the hood of a car		
	Application in Automobile Field		
Appearance	Black		
	Natural color		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 10 seconds, injection molding	90		ASTM D2240
Shore D, 10 seconds, injection molding	35		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus - 1% Tangent	0.0910	MPa	ASTM D412
Dynamic Service Temperature	170	°C	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	11.0	MPa	ASTM D412
Tensile Elongation (Break)	480	%	ASTM D412
Tear Strength	56.9	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	33	%	ASTM D395B
100°C, 22 hr	65	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-34.4	°C	ASTM D746
Injection	Nominal Value	Unit	
Drying Temperature	79.4 - 100	°C	
Rear Temperature	199 - 221	°C	
Middle Temperature	221 - 241	°C	
Front Temperature	221 - 241	°C	
Nozzle Temperature	221 - 241	°C	
Processing (Melt) Temp	221 - 229	°C	
Mold Temperature	10.0 - 48.9	°C	
Injection Pressure	5.17 - 8.96	MPa	
Injection Rate	Fast		
Screw Speed	50 - 200	rpm	
Clamp Tonnage	2.8 - 4.8	kN/cm ²	
Cushion	5.08 - 12.7	mm	
Injection instructions			
Holding Time: 5 to 7 Sec.			
Extrusion	Nominal Value	Unit	
Drying Temperature	79.4 - 100	°C	
Hopper Temperature	179 - 221	°C	
Cylinder Zone 1 Temp.	210 - 229	°C	
Cylinder Zone 3 Temp.	210 - 229	°C	
Cylinder Zone 5 Temp.	210 - 229	°C	
Adapter Temperature	210 - 229	°C	
Melt Temperature	210 - 229	°C	

Die Temperature	210 - 229	°C
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Extrusion instructions

Screw: L/D 20:1 or greater (L/D 24:1 preferred)Cooling Water: 60 - 85°F (15-30°C)Screw Speed: 100 - 200 rpmScreen Pack: 20/40/60

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