

# ENSOFT SD-176-75A

Thermoplastic Elastomer  
ENPLAST, a Ravago Group Company

Message:

ENSOFT SD-176-75A is a thermoplastic elastomer (TPE) product. It can be processed by extrusion or injection molding and is available in North America or Europe. The main characteristics are: good UV resistance.

General Information			
Features	Good UV resistance		
	Ozone resistance		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm <sup>3</sup>	ISO 1183

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	2.50	MPa	ISO 37
300% strain	3.50	MPa	ISO 37
Tensile Stress (Break)	8.50	MPa	ISO 37
Tensile Elongation (Break)	660	%	ISO 37
Compression Set			ASTM D395B
23°C, 22 hr	34	%	ASTM D395B
70°C, 22 hr	56	%	ASTM D395B

Additional Information			
The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.Tear Strength, ISO 34-2: 37 kN/mAbrasion Resistance, DIN 53516: 417 mm <sup>3</sup> Ozone Resistance, ISO 1431: No Crack			

Injection	Nominal Value	Unit
Rear Temperature	150 - 160	°C
Front Temperature	170 - 180	°C
Nozzle Temperature	185 - 190	°C
Processing (Melt) Temp	190 - 200	°C
Mold Temperature	10.0 - 50.0	°C
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	

Extrusion	Nominal Value	Unit
Drying Temperature	90.0	°C

Drying Time	1.0	hr
Cylinder Zone 1 Temp.	175	°C
Cylinder Zone 2 Temp.	185	°C
Cylinder Zone 3 Temp.	200	°C
Cylinder Zone 4 Temp.	205	°C
Cylinder Zone 5 Temp.	210	°C

Extrusion instructions

Machine Capacity, 30 mm cylinder diameter: 15 to 20 kg/hrMachine Capacity, 45 mm cylinder diameter: 60 to 85 kg/hrMachine Capacity, 60 mm cylinder diameter: 100 to 150 kg/hrMachine Capacity, 90 mm cylinder diameter: 225 to 300 kg/hr

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

