

# ENSOFT SD-150-45D

Thermoplastic Elastomer  
ENPLAST, a Ravago Group Company

Message:

ENSOFT SD-150-45D 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	1.13	g/cm <sup>3</sup>	ISO 1183

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	8.00	MPa	ISO 37
300% strain	9.00	MPa	ISO 37
Tensile Stress (Break)	15.0	MPa	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Compression Set			ASTM D395B
23°C, 22 hr	46	%	ASTM D395B
70°C, 22 hr	61	%	ASTM D395B

Additional Information			
The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.Tear Strength, ISO 34-2: 103 kN/mAbrasion Resistance, DIN 53516: 93 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.	190	°C
Cylinder Zone 2 Temp.	195	°C
Cylinder Zone 3 Temp.	205	°C
Cylinder Zone 4 Temp.	210	°C
Cylinder Zone 5 Temp.	220	°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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