



ENSOFT SD-176-75A

Ravago Manufacturing Turkey - Thermoplastic Elastomer

General Information

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Features	• Ozone Resistant	• UV Resistant
Processing Method	• Extrusion	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.50	MPa	ISO 37
Tensile Stress (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	%	
70°C, 22 hr	56	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	75		ISO 868

Additional Information

The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.
Tear Strength, ISO 34-2: 37 kN/m
Abrasion Resistance, DIN 53516: 417 mm³
Ozone Resistance, ISO 1431: No Crack

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	150 to 160	°C
Front Temperature	170 to 180	°C
Nozzle Temperature	185 to 190	°C
Processing (Melt) Temp	190 to 200	°C
Mold Temperature	10 to 50	°C
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	
Extrusion	Nominal Value	Unit
Drying Temperature	90	°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

ENSOFIT SD-176-75A

Ravago Manufacturing Turkey - Thermoplastic Elastomer

Extrusion Notes

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

Notes

¹ Typical properties: these are not to be construed as specifications.