ENSOFT SM-806-30A

ENSOFT-S

Data Sheet

Product Description : This polyolefin based thermoplastic elastomer (SEBS) compound is unfilled, expandable, high performance and completely recyclable. The mechanical test results belong to unexpanded. ENSOFT® series can be processed with conventional thermoplastics machinery.

Key Features :
Ready to use expandable
Good ozone, UV and weathering resistance
Rubberlike elasticity in a wide temperature range
Recyclability
Easy colorability with proper MB (PE, PP, etc. based)

Process Method : Extrusion, coextrusion, injection, multi injection molding

Uses : Industrial applications, personal care, toys, consumer goods, home&kitchen appliances

Revision Date : 01.02.2019

	Value	Unit	Standard
Physical			
Hardness	30	SHORE A	ISO 868 (3 second)
Density	0,89	gr / cm3	ISO 1183 1-A
Brittleness Temperature	-55	°C	ASTM D746
Mechanical			
100% Modulus	0,5	Mpa	ISO 37, DIN 53504
300% Modulus	1,0	Mpa	ISO 37, DIN 53504
Tensile Strength At Break	6,5	Mpa	ISO 37, DIN 53504
Elongation at Break	850	%	ISO 37, DIN 53504
Tear Strength (Perpendicular to flow)	20	N/mm	ISO 34-1
Thermal			
Max. Dynamic Service Temperature	90	°C	*
Max. Static Service Temperature	110	°C	*

Environmental Resistance	
Ozone	Excellent

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Water	Excellent
Alcohol	Excellent
Olive Oil	Fair
Sulphuric Acid	Good
Detergent	Good
Drying Condition	
Drying Time(hr)	Not required
Drying Temperature(°C)	Not required
Molding Condition (°C)	
1st Zone (hopper)(°C)	150-160
2nd Zone(°C)	160-170
3rd Zone(°C)	170-180
Nozzle(°C)	185-190
Melt Temperature(°C)	190-200
Mold Temperature(°C)	10-50
Max Allowable Melt Temperature(°C)	250 C
Extrusion Condition (°C)	
Feed Zone Temperature (°C)	170 - 190
Compression Zone Temperature (°C)	180 - 195
Melting Zone Temperature (°C)	195 - 205
Extruder Head Temperature (°C)	200 - 210
Die Temperature (°C)	200 - 220

Important Notice;

The above results are obtained from the tests conducted in Ravago Petrokimya laboratories on injection molded ISO samples and cannot be used directly to determine end-use or design specification. Datasheet values represent a statistical average of product properties and they may be subject to change as new information becomes available. Customers and other users should make their own independent determination that the product is suitable for the intended use. Ravago Petrokimya accepts no responsibility for results obtained by the application of this information and disclaims all warranties that might arise in connection with this information.

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