

Dow AIM® 4900 High Impact Styrenic Resin

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

AIM® 4900 advanced styrenic resin for extrusion and thermoforming applications is designed to offer the processability of high impact polystyrene and the gloss and practical toughness of high gloss ABS. It can be processed at lower temperatures than ABS. When used unmodified for the manufacture of food contact articles AIM 4900 complies with the US Food, Drug and Cosmetic Act and Food Additive Regulations 21 CFR 177.1640. The statute and regulations should be consulted for complete details.Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AIM-4900-High-Impact-Styrenic-Resin.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	15.9 MPa	2310 psi	ASTM Data
Tensile Strength, Yield	22.1 MPa	3210 psi	ASTM Data
Elongation at Break	40 %	40 %	ASTM Data
Tensile Modulus	1.79 GPa	260 ksi	ASTM Data
Izod Impact, Notched	1.23 J/cm	2.30 ft-lb/in	ASTM Data
Impact Test	23.7 J	17.5 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.0 μm/m-°C	45.0 µin/in-°F	ASTM data
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Vicat Softening Point	101 °C	214 °F	
Flammability, UL94	НВ	НВ	
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Optical Properties	Metric	English	Comments
Gloss	85 %	85 %	Gardner Gloss, 60°



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