

Diamond Polymers DIAMALLOY ST4600 TPE/ABS Alloy, Soft Touch Resin

Category : Polymer , Thermoplastic , ABS Polymer , Elastomer, TPE

Material Notes:

Diamaloy ST4600 material is an alloy of thermoplastics elastomers and ABS, specifically designed to provide a low gloss look and soft touch feel in applications where it is co-extruded or laminated over a ABS (acrylonitrile butadiene styrene) substrate. Diamaloy ST4600 has excellent durability and chemical resistance as well as improved sound dampening when used as a cap over ABS. Applications: Diamaloy ST4600 alloy resin is recommended for use in interior parts that will have limited exposure to direct UV light such as dashboards, panels and trim. As with any product, use of Diamaloy ST4600 resin in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability. The use of Diamaloy ST4600 as the carrier resin for color concentrates is imperative in order to maintain the proper look, feel, and physical performance of the finished product. DIAMOND POLYMERS recommends the Diamaloy ST4600 cap layer should be a minimum of 20 mils in the final part, after thermoforming. Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-DIAMALLOY-ST4600-TPEABS-Alloy-Soft-Touch-Resin.php

Physical Properties	Metric	English	Comments
Melt Flow	15 g/10 min	15 g/10 min	ISO-1133
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	ASTM D2240
Impact Test	6.00 J	4.43 ft-lb	Maximum Energy; ASTM D3763
	8.00 J	5.90 ft-lb	Total Energy; ASTM D3763

Thermal Properties	Metric	English	Comments
Flame Spread	42 mm/min	1.7 in/min	ISO 3795

Optical Properties	Metric	English	Comments
Gloss	10 %	10 %	50 mil Extruded Sheet; 60°; ASTM D523

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