

Advanced Polymer Alloys DuraGrip™ 6850 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

With its true rubber look and feel, DuraGrip® TPE improves the performance and appearance of virtually any consumer or light industrial product. Its one of the most versatile materials in APAs extensive line of Melt-Processable Elastomers™. FDA compliant grades with very good elastomeric properties and, when needed, a soft touch feel. Available in a wide variety of hardnesses

Advantages

Soft Grips – When combined with rigid thermoplastic substrates ,DuraGrip adds an ergonomic, soft feel that increases customer value in household products, appliances, personal care items, hand tools, sporting goods, and more.

Eye-Catching Color – Makes this product more attractive to the customers with easily colorable natural, translucent, and clear grades.

Faster Cycle Times – DuraGrip flows easily and molds with precision, enabling you to realize maximum throughput and profitability.

General purpose performance

FD-compliant applications

Bonding to polypropylene and polyethylene

Engineered thermoplastic bonding

Clear products

Bonding to nylon

Information provided by Advanced Polymer Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-DuraGrip-6850-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.990 g/cc	0.990 g/cc	ASTM D471
Viscosity	109000 cP	109000 cP	ASTM D3835
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	53	53	5 Sec; ASTM D2240
Tensile Strength at Break	5.92 MPa	859 psi	ASTM D412
Elongation at Break	448 %	448 %	ASTM D412
100% Modulus	0.00205 GPa	0.298 ksi	ASTM D412
Graves Tear Strength	20.9 kN/m	119 pli	Die C; ASTM D624
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compression Set	19 %	19 %	after 22 Hr At 24°C; ASTM D395
Tensile Set	9.0 %	9.0 %	ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-68.0 °C	-90.4 °F	ASTM D746

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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