

Polyplastics Duranex® 531HS Polybutylene Terephthalate (PBT), Hydrolysis resistant, Heat shock resistant, Heat Shock Resistant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Heat Resistant

Material Notes:

DURANEX® is a crystalline thermoplastic based on polybutylene terephthalate (PBT) that can be readily strengthened, modified, or otherwise performance enhanced through the addition of glass fibers or other inorganic filler additives. Various grades are available, including flame-retardant, reinforced, and impact-resistant grades. DURANEX®, due to its mechanical strength, heat stability, electrical resistivity and wear and abrasion-resistance, offers great potential as a well-balanced, highly reliable material, having a wide variety of applications including electronic / electro-mechanical and automobile parts and various other functional parts. DURANEX® also assures moldability, dimensional stability, glossy surfaces and various fabrication capabilities providing higher added value. Information provided by PolyPlastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastics-Duranex-531HS-Polybutylene-Terephthalate-PBT-Hydrolysis-resistant-Heat-shock-resistant-Heat-Shock-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	118 MPa	17100 psi	ISO 527-1, 2
Elongation at Break	2.7 %	2.7 %	ISO 527-1, 2
Flexural Strength	187 MPa	27100 psi	ISO 178
Flexural Modulus	8.10 GPa	1170 ksi	ISO 178
Charpy Impact, Notched	1.08 J/cm ²	5.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	130 µm/m-°C	72.2 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Deflection Temperature at 1.8 MPa (264 psi)	208 °C	406 °F	ISO 75-1, 2
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Dielectric Strength	16.0 kV/mm	406 kV/in	IEC 60243-1

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