DURANEX® 531HS

Polyplastics - *Polybutylene Terephthalate*

General Information

Product Description			
Hydrolysis Resistant, Heat Shock Resistant GF30% Reinforced			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Hydrolysis Resistant	• Thermal Shock Resistant	
Automotive Specifications	• HYUNDAI MS941-03 Type F-5 HI		
UL File Number	• E213445		
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >PBT-I-GF30<		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.47	g/cm³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.20	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	17100	psi	ISO 527-2
Tensile Strain (Break)	2.7	%	ISO 527-2
Flexural Modulus	1.17E+6	psi	ISO 178
Flexural Stress	27100	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	5.1	ft·lb/in²	ISO 179/1eA
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	75		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	406	°F	ISO 75-2/A
CLTE - Flow (73 to 131°F)	1.1E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	5.0E-5	in/in/°F	Internal Method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength (0.118 in)	410	V/mil	IEC 60243-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Color Number	EF2001/ED3002		

Notes

[1] Typical properties: these are not to be construed as specifications.