

DuPont Performance Polymers Hytrel® G3548L TPC-ET (Unverified Data**)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyester Thermoplastic Elastomer

Material Notes:

Hytrel® G3548L is a low modulus grade with nominal hardness of 35D. It contains non-discoloring stabilizer. It can be processed by many conventional thermoplastic processing techniques like injection molding and extrusion. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-G3548L-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	Immersion 24h; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.0 %	5.0 %	Immersion 24h; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Flow; ASTM D955
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Melt Flow	10 g/10 min	10 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	10 g/10 min	10 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	<= 35	<= 35	ASTM D2240
	<= 35	<= 35	ISO 868
	26	26	ISO 868
	@Time 15.0 sec	@Time 0.00417 hour	

Mechanical Properties	9.70 MPa Metric	1410 psi English	Comments (1A bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	10.3 MPa	1490 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	1.70 MPa	247 psi	ASTM D638
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	
	2.50 MPa	363 psi	ISO 527 (1BA bar)
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	
	2.60 MPa	377 psi	ASTM D638
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	
Elongation at Break	200 %	200 %	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	240 %	240 %	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	0.0230 GPa	3.34 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.00700 GPa	1.02 ksi	ASTM D790
	@Temperature 100 °C	@Temperature 212 °F	
	0.00700 GPa	1.02 ksi	ISO 178
	@Temperature 100 °C	@Temperature 212 °F	
	0.0320 GPa	4.64 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.0324 GPa	4.70 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.0500 GPa	7.25 ksi	ISO 178
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.0620 GPa	8.99 ksi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	NB	NB	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM D256
Izod Impact, Notched (ISO)	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ISO 180/1A
Charpy Impact, Notched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 µm/m-°C	278 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
	500 µm/m-°C	278 µin/in-°F	ASTM E 831
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	220 µm/m-°C	122 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
	220 µm/m-°C	122 µin/in-°F	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
	240 µm/m-°C	133 µin/in-°F	ASTM E 831
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
	240 µm/m-°C	133 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
	310 µm/m-°C	172 µin/in-°F	ASTM E 831
	@Temperature 55.0 - 120 °C	@Temperature 131 - 248 °F	
	310 µm/m-°C	172 µin/in-°F	ISO 11359-1/-2

Thermal Properties	Metric @Temperature 55.0 - 120 °C	English @Temperature 131 - 249 °F	Comments
Melting Point	154 °C	309 °F	10°C/min; ISO 11357-1/-3
	156 °C	313 °F	ASTM D3418
Brittleness Temperature	-61.0 °C	-77.8 °F	ISO 974
UL RTI, Electrical	50.0 °C	122 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	50.0 °C	122 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
	@Thickness 3.00 mm, Temperature 23.0 °C	@Thickness 0.118 in, Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	180 °C	356 °F	Optimum; Extrusion

Processing Properties	Metric	English	Comments
Mold Temperature	30.0 - 40.0 °C	86.0 - 104 °F	Injection Molding
	40.0 °C	104 °F	optimum; Injection Molding
Drying Temperature	80.0 °C	176 °F	Extrusion
	80.0 °C	176 °F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Extrusion
	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
Moisture Content	<= 0.080 %	<= 0.080 %	Extrusion
	<= 0.080 %	<= 0.080 %	Injection Molding

Descriptive Properties	Value	Comments
Additive	Antioxidant	
Appearance	Beige, Light	
Drying Recommended	Yes	
Extrudable - Blown Film	Yes	
Extrudable - Cast Film	Yes	
Extrudable - Coating	Yes	
Extrudable - Filament	Yes	
Extrudable - Hose	Yes	
Extrudable - Sheet	Yes	
Extrudable - Tubing	Yes	
Extrudable - Wire and Cable	Yes	
Extrusion Blow Moldable	Yes	
Features	Color Stability, Good	
	Copolymer, Block	
	General Purpose	
	Hardness, Low	
Forms	Pellets	

Descriptive Properties	Value	Comments
Heat Stabilized	Yes	
Injection Blow Moldable	Yes	
Material Status	Current	
Melt Castable	Yes	
Part Marking Code	>TPC-ET<	ISO 11469

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China