GLS AC1-546

Thermoplastic Elastomer

Key Characteristics

Product Description			
GLS AC1-546 Black is an easy processing, general purpose TPE designed for Philips.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Features	• General Purpose • Good Colorability	• Good Flow • Good Processability	
Uses	• Consumer Applications • Flexible Grips • Gaskets	• General Purpose • Household Goods • Overmolding	• Seals • Soft Touch Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.04 g/cm³	1.04 g/cm³	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress			ASTM D412
300% Strain, 0.0787 in (2.00 mm)	493 psi	3.40 MPa	
Tensile Strength			ASTM D412
Break, 0.0787 in (2.00 mm)	682 psi	4.70 MPa	
Tensile Elongation			ASTM D412
Break, 0.0787 in (2.00 mm)	620 %	620 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 3 sec)	57	57	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			Internal Method
392°F (200°C), 11200 sec^-1	23.7 Pa·s	23.7 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	320 to 370 °F	160 to 188 °C
Middle Temperature	350 to 380 °F	177 to 193 °C
Front Temperature	370 to 428 °F	188 to 220 °C
Nozzle Temperature	370 to 446 °F	188 to 230 °C
Mold Temperature	60 to 100 °F	16 to 38 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	0.00 to 120 psi	0.00 to 0.827 MPa

Notes

[1] Typical values are not to be construed as specifications.

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CONTACT INFORMATION

North America
Avon Lake, United States
33587 Walker Road
Avon Lake, OH, United States , 44012
+1 440 930 1000
+1 844 4AVIENT

South America
Sao Paulo, Brazil
Av. Francisco Nakasato, 1700
13295-000 Itupeva
Sao Paulo, Brazil
+55 11 4593 9200

Asia
Shanghai, China
2F, Block C
200 Jinsu Road
Pudong, 201206
Shanghai, China
+86 (0) 21 6028 4888

Europe
Pommerloch, Luxembourg
19 Route de Bastogne
Pommerloch, Luxembourg , L-9638
+352 269 050 35

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