GLS AD3-605

Thermoplastic Elastomer

Key Characteristics

Product Description	
GLS AD3-605 is a SEBS based TPE having good compression set and good reseal characteristics	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.970	0.970	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (100% Strain, 73°F (23°C))	137 psi	0.946 MPa	DIN 53504
Tensile Strength [2] (Break, 73°F (23°C))	728 psi	5.02 MPa	DIN 53504
Tensile Elongation [2] (Break, 73°F (23°C))	1000 %	1000 %	DIN 53504
Compression Set (158°F (70°C), 22 hr)	20 %	20 %	ASTM D395B
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	43	43	ISO 48-4
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	11.8 Pa·s	11.8 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Rear Temperature	340 to 380 °F	171 to 193 °C
Middle Temperature	380 to 470 °F	193 to 243 °C
Front Temperature	400 to 490 °F	204 to 254 °C
Nozzle Temperature	420 to 490 °F	216 to 254 °C
Mold Temperature	60 to 100 °F	16 to 38 °C
Back Pressure	0.00 to 120 psi	0.00 to 0.827 MPa
Screw Speed	25 to 100 rpm	25 to 100 rpm

Injection Notes

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP).

Notes

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

[2] 2 hr

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