GLS 467-080

Thermoplastic Elastomer

Key Characteristics

Product Description

GLS 467-080 is a translucent, overmold designed to adhere to multiple substrates.

- Good bond to PC, ABS, PC/ABS
- Rubber Feel

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Features	• Good Colorability • Good Moldability	• Good Processability • Good Processing Stability	
Uses	• Consumer Applications • Electrical/Electronic Applications	• Overmolding • Personal Care	• Transparent or Translucent Parts
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.910	0.910	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [2, 3] (300% Strain, 73°F (23°C))	883 psi	6.09 MPa	ASTM D412
Tensile Strength [2, 3] (Break, 73°F (23°C))	1170 psi	8.09 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	550 %	550 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 10 sec, 73°F (23°C)	78	78	
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	24.4 Pa·s	24.4 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	350 to 420 °F	177 to 216 °C
Middle Temperature	360 to 430 °F	182 to 221 °C
Front Temperature	380 to 450 °F	193 to 232 °C
Nozzle Temperature	400 to 470 °F	204 to 243 °C
Mold Temperature	70 to 90 °F	21 to 32 °C
Back Pressure	75.0 to 175 psi	0.517 to 1.21 MPa
Screw Speed	75 to 125 rpm	75 to 125 rpm

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Injection Notes

GLS 467-080 can use a variety of color concentrates. The type of color concentrates most suitable for the application are dependent upon the grade and the specific substrate materials, including color concentrate and filler levels. It is therefore advisable to contact your GLS Technical Representative to discuss your particular application. It should be noted that some color concentrates may affect adhesion to the substrate, resulting in decreased peel strength. Concentrates based on PVC should not be used. The final determination of color concentrate suitable should be determined by customer trials.

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

GLS 467-080 can use regrind up to 20% with minimal property losses, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should remain as low as possible. The final determination of regrind effectiveness should be determined by the customer.

GLS 467-080 has good melt stability. Maximum residence times may vary, depending on the size of the barrel. Generally, the barrel should be emptied if it is idle for periods of 8 - 10 minutes or longer.

Drying is not Required

Injection Speed: 1 to 5 in/sec
1st Stage - Boost Pressure: 180 to 580 psi
2nd Stage - Hold Pressure: 50% of Boost
Hold Time (Thick Part): 4 to 10 sec
Hold Time (Thin Part): 1 to 3 sec

Notes

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

[2] Die C

[3] 2 hr

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