



Versaflex™ 9555-9

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ 9555-9 has exceptional flow properties and surface aesthetics for a variety of applications.

- Excellent Flow for Long, Thin Flow Paths
- Exceptional Colorability
- Overmold Adhesion to Polypropylene
- Superior Surface Aesthetics

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Colorability	• Good Flow	• Good Surface Finish
Agency Ratings	• FDA Unspecified Rating		
Appearance	• Black		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.990	0.990	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	4.1 g/10 min	4.1 g/10 min	
200°C/5.0 kg	27 g/10 min	27 g/10 min	
Molding Shrinkage - Flow	9.0E-3 to 0.017 in/in	0.90 to 1.7 %	ASTM D955
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ^{2,3} (100% Strain, 73°F (23°C))	210 psi	1.45 MPa	ASTM D412
Tensile Stress ^{2,3} (300% Strain, 73°F (23°C))	335 psi	2.31 MPa	ASTM D412
Tensile Strength ^{2,3} (Break, 73°F (23°C))	565 psi	3.90 MPa	ASTM D412
Tensile Elongation ^{2,3} (Break, 73°F (23°C))	580 %	580 %	ASTM D412
Compression Set (73°F (23°C), 22 hr)	20 %	20 %	ASTM D395B
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 10 sec)	53	53	ASTM D2240
Fill Analysis	Typical Value (English)	Typical Value (SI)	Test Method
Apparent Viscosity			ASTM D3835
392°F (200°C), 1340 sec ⁻¹	35.0 Pa·s	35.0 Pa·s	
392°F (200°C), 11200 sec ⁻¹	7.20 Pa·s	7.20 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	300 to 370 °F	149 to 188 °C
Middle Temperature	320 to 390 °F	160 to 199 °C
Front Temperature	340 to 410 °F	171 to 210 °C
Nozzle Temperature	340 to 410 °F	171 to 210 °C

Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	60 to 80 °F	16 to 27 °C
Back Pressure	0.00 to 100 psi	0.00 to 0.689 MPa
Screw Speed	50 to 100 rpm	50 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).

Regrind levels up to 20% can be used with Versaflex™ 9555-9 with minimal property loss, 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.

Versaflex™ 9555-9 has good melt stability. Empty the barrel for idle periods of fifteen (15) minutes or longer.

Drying is not Required

Injection Speed: 1 to 5 in/sec

1st Stage - Boost Pressure: 300 to 700 psi

2nd Stage - Hold Pressure: 30% 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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