



Versaflex™ OM 6258-1

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ OM 6258-1 is specifically designed to bond to a variety of standard and modified nylon materials, including those which are glass-filled, heat stabilized and/or impact modified.

- Exceptional Colorability
- Outstanding Adhesion in Both Two-Shot and Insert Molding Processes
- Soft, Rubbery Grip
- Very Easy to Process

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Latin America	• North America
Features	• Good Adhesion	• Good Colorability	• Good Processability
Uses	• Lawn and Garden Equipment	• Overmolding	• Power/Other Tools
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.09	1.09	ASTM D792
Molding Shrinkage - Flow	0.014 to 0.020 in/in	1.4 to 2.0 %	ASTM D955
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ^{2,3} (100% Strain, 73°F (23°C))	275 psi	1.90 MPa	ASTM D412
Tensile Stress ^{2,3} (300% Strain, 73°F (23°C))	385 psi	2.65 MPa	ASTM D412
Tensile Strength ^{2,3} (Break, 73°F (23°C))	400 psi	2.76 MPa	ASTM D412
Tensile Elongation ^{2,3} (Break, 73°F (23°C))	350 %	350 %	ASTM D412
Tear Strength	105 lbf/in	18.4 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	23 %	23 %	ASTM D395B
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (10 sec)	62	62	ASTM D2240
Fill Analysis	Typical Value (English)	Typical Value (SI)	Test Method
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec ⁻¹	31.6 Pa·s	31.6 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	360 to 400 °F	182 to 204 °C
Middle Temperature	470 to 510 °F	243 to 266 °C
Front Temperature	480 to 520 °F	249 to 271 °C

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Injection	Typical Value (English)	Typical Value (SI)
Nozzle Temperature	490 to 530 °F	254 to 277 °C
Processing (Melt) Temp	480 to 520 °F	249 to 271 °C
Mold Temperature	55.0 to 85.0 °F	12.8 to 29.4 °C
Back Pressure	0.00 to 80.0 psi	0.00 to 0.552 MPa
Screw Speed	80 to 120 rpm	80 to 120 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™ OM 6258-1 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™ OM 6258-1 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: 3 to 6 in/sec

1st Stage - Boost Pressure: 300 to 800 psi

2nd Stage - Hold Pressure: 0% of Boost

Hold Time (Thick Part): 0 to 4 sec

Hold Time (Thin Part): 0 to 3 sec

Notes

¹ Typical values are not to be construed as specifications.

² Die C

³ 2 hr