ExxonMobil

Oil-free solution for comfortable TPE applications

Energy lives here™

Vistamaxx™ polymers formulation can eliminate the sticky touch caused by oil blooming

- Oil-free solution provides better anti-slip performance especially under wet condition
- Excellent compatibility with polyolefin-based substrates
- Cost effective with good balance of property and touch feel

Typical formulation with Vistamaxx polymers:

- 50 to 90% Vistamaxx 6202/6502
- 5 to 20% Vistamaxx 8880
- 0 to 30% PP
- 0 to 30% $CaCO_3$

Features	Benefits
Oil-free	▪ Anti-slip especially under wet condition ▪ No sticky feel due to oil blooming
Durability	▪ Excellent compatibility with polyolefin based substrates ▪ Improved toughness with tear and tensile strength
Comfortable touch	▪ Improved grip and reduced fatigue ▪ Good ergonomics and appearance
Clarity	▪ Design flexibility with good colorability, semi-transparency
Improved economics	▪ Cost effectiveness ▪ Lower density ▪ Reprocessable ▪ High filler loading acceptance

Vistamaxx grade	MFR 230°C/ 2.16 kg ExxonMobil method g/10 min	Density[1] 23°C ASTM D1505, g/cm³	Hardness 15 sec ASTM D2240, shore D/A	Tensile stress[1] at break ASTM D638, MPa (psi)	Elongation[1] at break ASTM D638, %	Flex mod[1,2] 1% secant ASTM D790 MPa (psi)	Tear strength[1] Die C ASTM D624, kN/m (lbf/in)	Vicat softening point 200 g ExxonMobil method, °C (°F)
6202	20	0.862	64A	>5.52 (>800)	>800	12.8 (1860)	32.0 (183)	45.2 (113)
6502	45	0.865	71A	>7.58 (>1100)	>800	20.4 (2960)	40.6 (232)	51.4 (125)

	Viscosity at 190°C (374°F) ExxonMobil method cP (mPa•s)	Density ExxonMobil method g/cm³	Durometer hardness (Shore C) ASTM D2240	Tensile strength at break ExxonMobil method, MPa (psi)	Elongation at break ExxonMobil method, %	Melting point, Tm ExxonMobil method, °C (°F)
8880	1200	0.879	53	6.2 (900)	1237	97 (206)

1. All physical properties were measured on specimens cut from compression molded plaques per ASTM D4703, Procedure A, Type I and conditioned at 23°C for a minimum of 40 hours per ASTM D618 prior to testing.
2. 1% secant at break.

Creating differentiated solutions. Together.

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