

XILOY™ SE735

XILOY™ SE735 is a styrene maleic anhydride (SMA) based compound especially designed for extrusion processes with:

- high thermal stability
- high dimensional stability

Application areas

XILOY™ SE735 extrusion grade is a styrene maleic anhydride (SMA) based compound with enhanced thermal properties and the processability of high-impact polystyrene (HIPS).

Processing

XILOY™ SE735 can be easily processed on most conventional extrusion equipment, either as a monolayer sheet or as part of a coextruded structure. Two-stage screws with vented barrels are preferred but not necessary. Compression ratios between 2.5:1 and 4:1 are also recommended for optimum processing. For XILOY™ polymers, maintaining the melt temperature at or below 440°F will improve physical and thermal properties of the finished part, and minimize any thermal degradation. Drying for 1.5 to 2 hours at 160-175°F is recommended both to eliminate any condensed moisture on the pellets and to assure the introduction of constant temperature pellets to the extruder.

Thermal Stability / Regrind

XILOY™ SE735 has excellent thermal stability and can be re-used as regrind back into the process. It is physically compatible with itself and most styrenic resins such as polystyrene.

Storage and handling

Store at well ventilated and dry places, protected from heat and direct sunlight. Avoid excessive moisture. The granules ensure easy, dust free handling and can be added to the compounding extruder through regular feeder systems.

Health and safety

All health related risks are mentioned in the Safety Data Sheet (SDS). Please contact: productstewardship@polyscope.eu to receive the SDS.

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Mechanical properties

	Unit	Typical value	Test method
Impact properties			
Izod notched impact strength (23°C)	J/cm (ft-lbs/in)	1.0 (1.8)	ASTM D256
Tensile properties			
Tensile stress at yield	MPa	24	ASTM D638
Tensile stress at break	MPa	23	ASTM D638
Elongation at break	%	30	ASTM D638
Tensile modulus	MPa	1950	ASTM D638

Thermal properties

	Unit	Typical value	Test method
Vicat-A (10N, 120° C/h, non-annealed)	°C (°F)	109 (229)	ASTM D1525
HDT-B (66 psi, 0.45 MPa, non-annealed)	°C (°F)	98 (209)	ASTM D648

Specific properties

	Unit	Typical value	Test method
Density	g/cm ³	1.04	ISO 1183
Melt flow index at 200°C and 50N	dg/min	6	ASTM D1238

Processing

	Unit	Typical value
Pre drying temperature	°C (°F)	70-80 (160-175)
Pre drying time	hrs	1.5-2
Barrel temperatures	°C (°F)	195-230 (380-440)
Optimal melt processing temperature	°C (°F)	220 (430)
Maximum melt processing temperature	°C (°F)	240 (460)

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