

Technical Data Sheet

Type: Estane® 58226 is a 92A aromatic Polyester-Based Thermoplastic Polyurethane (TPU).

Features: Excellent physical properties, good chemical resistance and enhanced hydrolysis resistance. Wide processing window for extrusion.

Uses: Blown and flat die/cast film extrusion, Injection and blow molding.

Physical Properties	Value (Metric)	Unit	Test Method
Hardness (5 sec)	92 +/- 3	Shore A	ASTM D-2240
Specific Gravity	1.21		ASTM D-792
Tensile Strength	9000 (62.1)	psi (MPa)	ASTM D-412
Ultimate Elongation	500	%	"
Tensile Stress at:			
- 100% Elongation	1100 (7.6)	psi (MPa)	ASTM D-412
- 300% Elongation	3000 (20.7)	psi (MPa)	"
Tear Strength:			
- Graves	570 (10.2)	lb/in (kg/mm)	ASTM D-624 (die C)
- Trouser	150 (2.7)	lb/in (kg/mm)	ASTM D-470
Taber Loss (1000 rev)	0.00141 (40)	oz (mg)	ASTM D-3389 (H18, 1000g)
T _m (by DSC)	284 (140)	°F (°C)	Lubrizol Advanced Materials
T _g (by DSC)	-13 (-25)	°F (°C)	Lubrizol Advanced Materials

- Prior to testing samples were conditioned at 23°C for 48 hours.
- Based on extruded sheet (30 mils).
- Listed values are "typical (average) values" and should/cannot be applied for specification purposes.

Supply Form and Standard Packaging

- Estane® 58226 TPU is supplied in pellet form and packaged in 50 lb bags or 1000 lb boxes.

Material Preparation

- Prior to processing, Estane® 58226 TPU must be dried at 220°F (104°C) for 2-4 hours.
- It is recommended to dry the material in a desiccant type dryer. Target dew point should be -40°C.
- Depending on the applied processing technique, the maximum moisture level should be 0.02%.

Processing Conditions

- Estane® 58226 TPU can be processed on any conventional extruder.

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Recommended Starting Extrusion Temperature Profile:

	°F/°C
Zone 1	360/182
Zone 2	370/188
Zone 3	380/193
Zone 4	390/199
Adapter	400/204
Die Zone 1	400/204
Die Zone 2	400/204

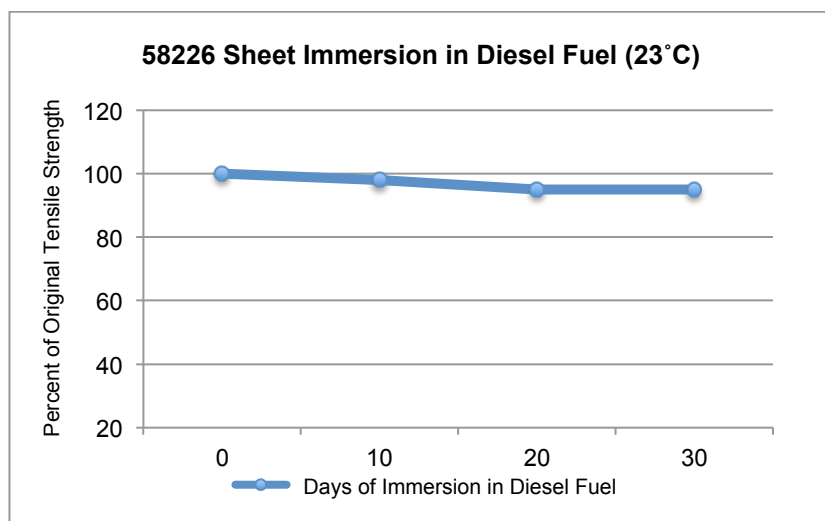
Melt Temp. Mid-Range: 395°F/202°C
Screen Pack Recommendation: 20/40/80/20

Application Information: High Performance Film & Sheet

Properties	Value (Metric)	Unit	Test Method
Tensile Set (200% elongation)	21	%	ASTM D-412
Volume Swell (24h) in Diesel Fuel	8.0	%	ASTM D-471
USP Class VI Status	Not Tested		
FDA 177.1680 (dry bulk foods)	No		
FDA 177.2600 (wet/fatty foods)	No		

• Only for repeat use articles.

Sheet immersion in diesel fuel at 23°C



For further information refer to Lubrizol Advanced Materials processing guides.

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