

SKYPEL

CONFIDENTIAL
Engineering Thermoplastic Polyester Elastomer

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Technical Data Sheet

SKYPEL LX780A (Trial-1)

DESCRIPTION

SKYPEL LX780A is a thermoplastic polyester elastomer resin with 80A hardness based on shore A scale. It is widely used for injection molding and extrusion applications.

Physical properties

Properties	ASTM No	Units	LX780A (Trial-1)
Aesthetics	-	-	Low tack & Silky feel
Hardness - Max - 15s	D2240	Shore A	80 80 79
Specific gravity	D792	-	1.06
Water absorption, 24hr	D570	%	0.9
Mold shrinkage	D955	%	0.7
Tensile Stress at 5% Strain ¹⁾	D638	kgf/cm ²	6
Tensile Stress at 10% Strain ¹⁾	D638	kgf/cm ²	11
Tensile Stress at 100% Strain ¹⁾	D638	kgf/cm ²	35
Tensile Stress at Break ¹⁾	D638	kgf/cm ²	280
Elongation at Break ¹⁾	D638	%	1500
Tear strength ²⁾	D1004	kN/m	84
Compression set, 22hr, 70°C	D395	%	57
Melting Point ³⁾	D3418	°C	192
Melt Flow Rate Temperature, °C / 2.16kg	D1238	g/10min °C	25 220

- 1) ASTM Type IV dumbbells diecut from injection molded slab 2mm thick. Crosshead speed 50mm/min
- 2) Specimens 2mm thick. Crosshead speed 51mm/min
- 3) Differential Scanning Calorimeter (DSC), peak of endotherm. Heating rate 10°C/min.

General purpose processing condition

Injection	Cylinder	Rear	°C	205	Extrusion	Cylinder	Rear	°C	195
		Center		210			Center		210
		Front		215			Front		210
	Nozzle			220		Die			210
	Mold			35		Melt			215

All data reported here are believed to be correct. However, this should not be accepted as a guarantee of their accuracy.