

SKYPEL LX780A (Trial-1)

Technical Data Sheet

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

