

SKYPEL LP380A

DESCRIPTION

SKYPEL LP380A is a thermoplastic polyester elastomer resin with 80A hardness based on shore A scale is widely used for injection molding and extrusion applications.

Physical properties

Properties	ASTM No	Units	LP380A
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	8
Tensile Stress at 10% Strain ¹⁾	D638	kgf/cm ²	14
Tensile Stress at 100% Strain ¹⁾	D638	kgf/cm ²	37
Tensile Stress at Break ¹⁾	D638	kgf/cm ²	270
Elongation at Break ¹⁾	D638	%	1400
Compression set, 22hr, 70°C	D395	%	58
Melting Point ²⁾	D3418	°C	179
Melt Flow Rate Temperature, °C / 2.16kg	D1238	g/10min °C	38 230

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

General purpose processing condition

Injection	Cylinder	Rear	°C	190	Extrusion	Cylinder	Rear	°C	180	
		Center		200			Center			190
		Front		200			Front			195
	Nozzle			205		Die				195
	Mold		35		Melt				200	