SKYPEL

Engineering Thermoplastic Polyester Elastomer

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Technical Data Sheet

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℃	D395	%	58
Melting Point [2)]	D3418	ºC	179
Melt Flow Rate Temperature, ºC / 2.16kg	D1238	g/10min ºC	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 10ºC/min.

General purpose processing condition

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

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