

Generic Polyester, TP

Thermoplastic Polyester

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18 - 1.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.29 - 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.066 - 0.16	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	103 - 107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	46.0 - 58.9	MPa	ASTM D638
Yield, 23°C	46.2 - 47.0	MPa	ISO 527-2
Fracture, 23°C	29.0 - 53.9	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	4.0 - 5.1	%	ASTM D638
Fracture, 23°C	39 - 500	%	ASTM D638
Fracture, 23°C	190 - 210	%	ISO 527-2
Flexural Modulus (23°C)	1520 - 2340	MPa	ASTM D790
Flexural Strength			ASTM D790
23°C	65.0 - 73.8	MPa	ASTM D790
Yield, 23°C	67.0 - 69.0	MPa	ASTM D790
Coefficient of Friction	0.37 - 0.51		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	29 - 52	µm	
Tensile Strength			ASTM D882
MD: Yield	85.9 - 101	MPa	ASTM D882
TD: Yield	85.5 - 103	MPa	ASTM D882
MD: Fracture	156 - 193	MPa	ASTM D882
TD: Fracture	182 - 230	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	140 - 200	%	ASTM D882
TD: Fracture	95 - 110	%	ASTM D882
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37 - 380	J/m	ASTM D256

Instrumented Dart Impact (23°C)	31.7 - 46.1	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	67.0 - 73.2	°C	ASTM D648
1.8 MPa, not annealed	60.6 - 70.5	°C	ASTM D648
Vicat Softening Temperature	79.0 - 86.5	°C	ASTM D1525
Melting Temperature	255 - 260	°C	
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value		Test Method
Dielectric Constant (23°C)	2.34 - 3.30		ASTM D150
Optical	Nominal Value	Unit	Test Method
Transmittance	88.6 - 92.0	%	ASTM D1003
Haze	0.20 - 2.6	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	69.8 - 80.9	°C	
Drying Time	3.0 - 4.1	hr	
Processing (Melt) Temp	255 - 270	°C	
Mold Temperature	22.5 - 22.6	°C	
Injection instructions			

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