

TSC-5M TSC(M) Series

High Transparency Engineering Plastics



Applications:

Premium CD Jewel Boxes, Cosmetics Packaging, Lampshade, Faucet Handles, Pen/Pencil, Water Pitchers etc.

ASTM

Main Characteristics

- ~ High Gloss and Transparency
- ~ Can Replace Acrylic due to its higher Tenacity
- ~ 10% Lower Specific Gravity Than Acrylic
- ~ 10% 20% Cheaper Than Acrylic

Other Merits

- ~ Smooth Surface
- ~ Short Molding Cycle

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- ~ No Finger Print Left After Touching
- ~ No Need To Bake Before Process

English

~ Can Be Used With Recycled GPPS / HIPS

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Properties	Test	Value	Units	Value	Units
Physical					
Melt Flow Rate Specific Gravity Shrinkage	D 1238 D 792 D 955	4 1.06 0.002-0.006	g/10min in/in	4 1.06 0.002-0.006	g/10min cm/cm
Optical					
Transparency (3.18mm) Haze index	D 1003 D 1003	92 0.8	%	92 0.8	% %
Mechanical					
Yield Tensile Strength Elongation Flexural strength Flexural flexibility Izod impact (20°C) Rigidity	D 638 D 638 D 790 D 790 D 256 Shore D	7252 10 11023 355633 0.64 80	psi % psi psi ft-lb/in	50 10 76 2452 3.50 80	Mpa % Mpa Mpa kg-cm/cm
Thermal		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Softening Point Deflection Temperature Under Load (The above data is for ref	D 1525 D 648 ference only)	210.2 186.8	°F °F	99 86	°C
Injection Molding Processing Guide		Starting Point		Range	
Melting Temperature Rear heating zone Middle heating zone Front heating zone Mold Temperature		215 ℃ 190 ℃ 205 ℃ 215 ℃ 54 ℃		210 - 245 °C 180 - 215 °C 200 - 235 °C 210 - 245 °C 32 - 60 °C	
	Processing Temperature higher than 204°C and s al's colour to yellow and	taying the hea		long time,	
Injection Speed Back Pressure Screw speed Cushion				Slow to Medium around 50 psi (345kPa) around 60 rpm around 3 mm	
	the machine with GPPS prior to			ansparent ABS, HII	PS &

SAN being used.) to ensure there is no residue inside the machine to affect the transparency.