Series

Melamine/Phenolic Molding Compounds



Plenco's 00700 series

00700 Melamine/Phenolic molding materials were developed to capitalize on the heat resistance and dimensional stability of phenolic, and the superior electrical properties and surface hardness of melamine.



Many formulations are reinforced with organic and mineral fillers, but PTFE and other additives can be used to enhance specific properties.

Plenco 00700 materials are single-stage molding compounds that process best if used within nine months when stored at 30°C. Multiple flow grades are generally available for each product type to help optimize injection, compression and or transfer molding production.

Applications

The combination of superior surface hardness, electrical insulation and heat resistance make Plenco 00700 materials an excellent choice for numerous markets including medical, home and commercial kitchen, industrial and consumer electrical systems, transportation and aerospace.



00700 materials have been successfully specified for medical devices that undergo repeated autoclave sterilization, aircraft interior components for their low smoke toxicity, mico-switch components and reset buttons, thermostat housings, solenoid covers, decorative food service knobs and industrial control knobs and switches.



Typical Data Sheet Property Ranges* - Plenco 00700 series

ENGLISH	ASTM METHOD
Granular	
36.2 - 45.1	D1895
1.58 - 1.71	D792
0.0035 - 0.0094**	D955
0.36% - 1.41%	D1299
0.28 - 0.40	D256
0.31 - 0.45	D256
8,100 - 11,100	D638
1.2 - 1.9	D638
0.47 - 0.95	D638
12,100 - 15,800	D790
1.1 - 1.7	D790
20,700 - 29,700	D695
66 - 86	D785
280 - 329	D794
336 - 396	D648
0.21 - 0.47	D570
137 - 342	D149
425 - 600	D3638
170 - 190	D495
V-0	UL94
5.2 E-05 - 5.3 E-05	
0.25 - 0.54 (Btu/hr/ft	:/°F)
	ENGLISH Granular 36.2 - 45.1 36.2 - 45.1 1.58 - 1.71 0.0035 - 0.0094** 0.36% - 1.41% 0.28 - 0.40 0.31 - 0.45 8,100 - 11,100 1.2 - 1.9 0.47 - 0.95 12,100 - 15,800 1.1 - 1.7 20,700 - 29,700 1.1 - 1.7 20,700 - 29,700 66 - 86 280 - 329 336 - 396 280 - 329 336 - 396 0.21 - 0.47 137 - 342 425 - 600 170 - 190 V-0 5.2 E-05 - 5.3 E-05

Please consult your Plenco Technical Sales Representative for specific material details. Fitness for use must be determined by the end user.

0.31 - 0.36

Poisson's Ratio in Tension

* Properties listed above are the range of properties available from Plenco material data sheets. The range was taken from injection, compression and transfer molded sample data as available on www.plenco.com.

**Mold shrinkage values are generated under controlled laboratory conditions. Values provided above are for reference only and should not be used alone to design or build molds.

3518 Lakeshore Rd, Sheboygan, WI 53082 (920) 458-2121 www.plenco.com