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Rigid PVC (Polyvinyl Chloride)

Rigid PVC (Polyvinyl Chloride) is a comparatively low cost plastic with an exceptionally good resistance to attack by a wide range of chemicals.

Other properties are:

- Dimensional stability almost no moisture absorption.
- · Good electrical properties.
- · Classified as self extinguishing.
- · Easily fabricated.

Chemical Resistance

At temperatures up to 60°C rigid PVC is resistant to most acids e.g. hydrochloric, phosphoric, sulphuric below 90% concentration and nitric below 50% concentration, alkalis, solutions of salts, gases and organic compounds such as fats, alcohols and aliphatic hydrocarbons. It is swollen and weakened by aromatic and chlorinated hydrocarbons, esters, ketones and aldehydes. It is not resistant to bromine, fluorine, chlorine gas in a hot damp environment and some concentrating oxidizing acids.

AVAILABILITY - RIGID PVC

- Rod
- Sheet
- Section
- Machined Parts

| ES | Test Method | UPVC | Units |
|----------------|--|--|--|
| | DIN 53479 | 1.38 | g/cm³ |
| | DIN 53455 | 55 | N/mm² |
| | DIN 53455 | 20 - 40 | % |
| | DIN 53457 | 3000 | N/mm² |
| | DIN 53452 | 90 | N/mm² |
| | DIN 53453 | not broken | mJ/mm ² |
| | DIN 53453 | 3 | mJ/mm² |
| | DIN 53456 | 120 | N/mm² |
| | ASTM D785-51 | R115 | |
| | DIN 53495 | 0.2 | % |
| | DIN 53375 | 0.6 | |
| | | | |
| | DIN 53460 | 75 | °C |
| e 1.8 N/mm² | DIN 53461 | 67 | °C |
| al Expansion | DIN 53752 | 8.10⁵ | °C-1 |
| | DIN 52612 | 0.15 | W/mK |
| | UL94 | V - O | |
| ce Temperature | | 60 | °C |
| ce Temperature | | -15 | °C |
| S | | | |
| | DIN 53482 | 1015 | ohm cm |
| | DIN 53482 | 1013 | ohm |
| | DIN 53481 | 40 - 50 | kV/mm |
| 50 Hz | DIN 53483 | 4 | |
| 1 MHz | | 3 | |
| 50 Hz | DIN 53483 | 0.015 | |
| 1 MHz | | 0.020 | |
| KB Method | VDE 0303 | >600 | |
| KC Method | | >600 | |
| | e 1.8 N/mm² al Expansion ce Temperature ce Temperature S 50 Hz 1 MHz 50 Hz 1 MHz KB Method | DIN 53479 DIN 53455 DIN 53455 DIN 53457 DIN 53457 DIN 53452 DIN 53453 DIN 53453 DIN 53456 ASTM D785-51 DIN 53495 DIN 53495 DIN 53460 e 1.8 N/mm² DIN 53461 al Expansion DIN 53752 DIN 52612 UL94 ce Temperature ce Temperature S DIN 53482 DIN 53481 DIN 53483 1 MHz S0 Hz DIN 53483 1 MHz KB Method VDE 0303 | DIN 53479 1.38 DIN 53455 55 DIN 53455 20 - 40 DIN 53457 3000 DIN 53452 90 DIN 53453 not broken DIN 53453 3 DIN 53456 120 ASTM D785-51 R115 DIN 53495 0.2 DIN 53375 0.6 DIN 53460 75 BE 1.8 N/mm² DIN 53461 67 BI Expansion DIN 53752 8.10° DIN 52612 0.15 UL94 V - O CE Temperature 60 DE Temperature 60 DE Temperature 7.15 DE TEMPE |