

TECHSIL[®] TOUGHENED CYANOACRYLATE 80

Techsil[®] TOUGHENED CYANO 80 is a black ethyl cyanoacrylate, with higher peel and shock resistance than other grades. Techsil[®] TOUGHENED CYANO 80 has a longer setting time than regular cyanoacrylate adhesive which allows enough time for users to put materials together after application. It has been specially formulated to achieve the strongest possible bond between well-mated, non-porous surfaces, such as rubber, metals, plastics etc. Techsil[®] TOUGHENED CYANO 80 is a one-component, solvent free system and does not require the use of a catalyst, heat or clamps. When a thick layer of Techsil[®] TOUGHENED CYANO 80 is applied between two surfaces comes into contact with atmospheric moisture, a rapid polymerisation occurs producing the ultimate bond.

Physical Properties

Property	Test Method	Value
Uncured Product		
Chemical Type		Ethyl Cyanoacrylate
Appearance		Black
Specific Gravity		1.053 1.060
Refractive Index	N ²⁰ D	1.439
Flash Point	(°C)	>80
Shelf Life @ 20°C	(Months)	6
Boiling Point	(°C)	65/6mm HG

Property	Test Method	Value
Cured Product		
Appearance		Black
Specific Gravity	(20°C)	1.1 1.3
Working Temperature	(°C)	50°C - 125°C
Refractive Index	N ²⁰ D	1.490
Dielectric Constant	10MHz	3.5
Dielectric Loss	10MHz	0.067
Procure		500-1000

Directions for Use

1. Make sure the surfaces to be bonded are clean and dry (preferable to solvent-wipe plastic glass, and rubber and the acid-treat metals).
2. Dispense a drop or drops to one surface only. Apply only enough to leave a thin film after compression.
3. Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less than one minute. (Maximum strength is achieved in 24 Hours)
4. Wipe of excess adhesive from the top of the container and recap. If the Techsil Toughened Cyan 80 is left uncapped it may deteriorate by contamination from moisture in the air.
5. Because Techsil Toughened Cyan 80 polymerises on contact with moisture surfaces, sometime whitening will occur on the surface of the container or the bonded materials. Should this happen, wipe surfaces well with debonder.

Contact Details

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Bond Strength

	KG/CM ²
Rigid PVC/Rigid PVC	40-60
ABS/ABS	50-70
Polycarbonate/Polycarbonate	80-120
Polystyrene/Polystyrene	30-45
Natural Rubber/Natural Rubber	5-9
*Neoprene/Neoprene	5-9
NBR/NBR	5-9
ABS/SBR	5-10
SBR/SBR	5-10
Steel/Steel	190-210
Stainless Steel/Stainless Steel	160-180
Aluminium/Aluminium	170-190
Copper/Copper	150-170
Steel/Rigid PVC	50-60
Stainless Steel to Neoprene	5-10

Precaution

1. Use with proper ventilation. Avoid contact with skin and eyes.
2. If contact with skin occurs, rinse with warm water or dissolve gradually with appropriate de-bonder. Do not try to remove forcibly.
3. If adhesive gets into eye, keep eye open and rinse thoroughly. Seek medical attention immediately.
4. Keep well out of reach of children.
5. Keep adhesive in a cool, dry place 20-25oC. For long term storage, refrigeration (5°C) is recommended.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

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