

CHLORINATED PVC RESIN (CPVC)

Description:

CPVC is a thermoplastic produced by chlorination of Polyvinyl Chloride (PVC) resin. Chlorine gas decomposed into free radical chlorine and then reacted with PVC in a post-production step. Chlorine added to increase the stability and reduce reaction to heat, which means advantages more than regular PVC while retaining the good chemical specification of PVC.

Application:

CPVC can be used for many types of industrial pipeline: hot/ cold liquid pipeline, industrial gas pipeline and fire retardant cables. It is advisable to replace CPVC with regular PVC, due to its heat & corrosion resistance, and anti-chemical properties.

Comparison of CPVC & PVC

Index	CPVC	PVC
Density (g/cm ³)	1.38-1.45	1.45-1.58
Vicat Softening temperature (oC)	72-82	100-125
Application Temperature (oC)	30-40	93-100
Tensile Strength (MPa)	39-58	54-70
Bend Strength (MPa)	105	120
Extension at break	120	50
Linear coefficient of thermaexpansion (K-1)	(6-7) x 10 ⁻⁵	(7.5-8) x 10 ⁻⁵

Others specification:

Heat resistance, stable to acid solvent & chlorinated hydrocarbon, anti-bacteria, self- extinguish (when not in a directly applied flame), easy to install, low maintenance and longer shelf life (more than 40 years).

Packaging:

CPVC are supplied in 25kg + 0.1kg double layer bags, consist of plastic PE bag as inner layer and paper PP woven laminated bag as outer layer.

Storage:

Store in a cool dry place to prevent moisture absorption.



Corporate Office:



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