

BRIOL-1307CPT

Application

BRIOL-1307CPT formulated polyol has been developed to be used with blowing agent cyclopentane. It is widely used in the manufacturing of Thermoware. Excellent operability, flowability and good demolding are the main advantages when it reacts with recommended isocyanate for the formulation. The manufactured foam performs good density distribution, high compressive strength, excellent dimensional stability.

BRIOL-1307CPT is a tailor-made formulated polyol. The applicability of this polyol to a given application needs to be tested prior to production.

Typical Physical Properties

Property	BRIOL-1307CPT
Appearance	Pale Yellow to Reddish Brown
Viscosity at 25°C, cps	1750±400
Specific Gravity	1.08±0.05
OHv, mg KOH/g	350±15
Water Content (%)	1.90±0.10

Processing Conditions

BRIOL-1307CPT system can be processed by high (or low) pressure machine. It is essential to have equipment that consistently delivers accurate amounts of polyol and isocyanate to be mixed to achieve a production with high performance.

Processing Parameters

Hand Mix Reactivity

Component Temperature at 21±1°C	
Iso/Formulated Polyol/c-pentane (w/w) Mixing Time, sec.	135.4/100/14 8
Cream Time, sec	9±1
Gel Time, sec	50±2
Free Rise Density, Kg/ m ³	29.0±1.5

Machine Mix Reactivity

Component Temperature at 21±1°C	
Iso/Formulated Polyol/c-pentane (w/w)	135.4/100/14
Cream Time, sec	6±1
Gel Time, sec	30±2
Free Rise Density, Kg/ m ³	28.0±1.5

Above data is obtained at Britas Lab; Actual data at customer site may be different because of test machine and condition, etc.

Typical Physical Properties (Mold temperature at 40°C)

Item	Value
Core Density	37-44
Compressive Strength (kPa)	≥130
Dimensional Stability (-30°C 24hr), %	≤1.0
10°C Thermal Conductivity (mW/m.K)	≤23.0

Package(s) : Metal (Iron) drums – 200 Kgs, IBC

Storage

BRIOL-1307CPT should be kept in properly sealed, moisture-tight containers and stored indoors at ambient temperature (15-35°C) in a dry and well-ventilated area. Storage at low temperature (below 5°C) may lead to viscosity increases markedly, and this may cause difficulties in processing. Extended storage at temperatures above 60°C is not recommended to prevent from deterioration of the product quality.

Shelf Life

Under recommended storage conditions, the shelf life of BRIOL-1307CPT is 6 months since the date of production.

Safety

Most polyols generally present no significant hazard in use when simple precautions are followed. No special ventilation is recommended under anticipate conditions of normal use beyond that needed for normal comfort control. Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses must not be worn. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Not normally considered a skin hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.

Spill and Disposal

Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into clean, dry containers for later disposal. Large spill should be collected for disposal and then be cleaned by the rag with lye or acetone, prevent flow to sewer/public waters. Keep unnecessary people away, isolate hazard area and deny entry. All of the collected waste material should be handled according to the regulation of the local environment agency.

The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. The user is welcome to contact our customer and technical service center with questions on our products.