

Rigid foam system for Pipe Shell

DonPipe 322

Product Introduction



DonPipe 322 is a kind of blend polyols with 141b as blowing agent, reacting with MDI to get pipe shell foam, with nice performance of even foam cell, low thermal insulation, no shrinkage in low temperature etc.widely used in stream heat pipe, LNG, and other low temperature insulation project and so on.

Physical Property

Appearance		Light yellow transparent viscous liquid
Hydroxyl value	mgKOH/g	150-250
Dynamic viscosity (25℃)	mPa.S	150-300
Density (20℃)	g/ml	1.10-1.20
Storage temperature	℃	10-25
Storage stability	Month	6

Recommended Ratio

Raw Material	Pbw
DonPipe 322 blend polyols	100
Isocyanate	110-130

Technology and Reactivity (the exact value varies depending on processing conditions)

Items	Manual mixing	High temperature machine
Material temperature ℃	25	25
Moulding temperature ℃	40-45	40-45
cream time s	8-15	6-12
Gel time s	40-60	25-45
Free Density kg/m ³	25-30	25-30

Foam Performances

Foam density by moulding	ASTM D1622	≥50kg/m ³
Closed cell rate	ASTM D1940	≥90%
Thermal conductivity (15℃)	ASTM C518	≤22mW/(m.K)
Compressive Strength (perpendicular to the direction of rising)	ASTM D 1621	≥250kPa
Dimensional Stability (24h,-20℃)	ASTM D2126	≤1.0%
(24h,100℃)	ASTM D2126	≤1.5%