## **Product Data Sheet**

## Cargodur® 35



EU / EN

thermoset high-performance insulating material				
application	with particularly high thermal insulation performance for construction of refrigerated and commercial vehicles unlaminated			
assembly	blocks, boards or pre-cut parts dimensions at customer's option upon request dimensional tolerances acc. to puren factory standard			

Cargodur® 35	Technical data PU rigid foam		
Characteristic	Standard/test procedure	Unit	Indicator
Material	Polyurethane rigid foam (PU) in compliance with EN 13165 and EN 14308, harmless from a biological and building ecology point of view, recyclable, rotproof, resistant to mildew and decay.		
Bulk density	EN 1602	kg/m³	34 - 36
Thermal conductivity Fresh values 2		W/(m·K)	0,020 - 0,022
Compressive strength	measured values <sup>2)</sup>		
Compressive stress at 10% compression	EN 826	kPa	210 - 250
E-modulus (compressive stress) 2)		MPa	4,5 - 7,5
Tensile strength perpendicular to panel plane			
Transverse tensile strength	EN 1607	kPa	330 - 390
E-modulus (transverse tensile stress) 2		MPa	9,0 - 12,0
Bending strength 2)	EN 12089	kPa	280 - 360
Transverse strength 23	EN 12090 (in compliance with DIN 53427)	kPa	160 - 210
Shear strength <sup>2)</sup>	EN 12090 (in compliance with DIN 53294)	kPa	180 - 240
Fire behaviour	non-smouldering, non-melting, non-dripping		
Reaction to Fire Class / RtF ( EU )	EN 13501-1		F
Closed cell content 2)	ISO 4590	%	90 - 95
Temperature resistance		°C	-30 to +120
Moisture absorption <sup>2)</sup>	EN 12087	Vol%	≤ 3
Specific heat capacity 1) C	EN 12524	J/(kg·K)	1400
Water vapour diffusion resistance factor $^{1)}$ $\mu$	EN 12086		40 - 200
Linear expansion coefficient 13	EN 1604	1/K	5 - 8 · 10 <sup>-5</sup>
	Literature value, not part of the factory production control and external supervision. Average values calculated on a regular basis under production conditions as part of factory production control. It is ensured that mechanical characteristic values do not fall below their minimum level by more than 10%		

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