

## BASF Styrodur® 3035 CN Extruded Rigid Polystyrene Foam (Europe)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Expanded Polystyrene (EPS) , Polystyrene, Extrusion Grade

### Material Notes:

Description: Styrodur C is the green extruded rigid polystyrene foam (XPS) from BASF. As a thermal insulation, it makes a significant contribution to climate protection by reducing CO2 emissions. The key features of Styrodur C are high compressive strength, low water absorption, and outstanding thermal insulation. It is also rot-proof and easy to handle on site. Compressive strength is the major factor that differentiates the various grades of Styrodur C. Applications: Cavity walls, Pitched roofs, Ceilings, and Warehouse Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Styrodur-3035-CN-Extruded-Rigid-Polystyrene-Foam-Europe.php](http://www.lookpolymers.com/polymer_BASF-Styrodur-3035-CN-Extruded-Rigid-Polystyrene-Foam-Europe.php)

Physical Properties	Metric	English	Comments
Density	0.0300 g/cc	0.00108 lb/in <sup>3</sup>	
Water Absorption	0.20 %	0.20 %	by immersion; DIN EN 12087
	<= 3.0 %	<= 3.0 %	by diffusion; DIN EN 12088
Water Vapor Transmission	100 - 150 g/m <sup>2</sup> /day	6.44 - 9.66 g/100 in <sup>2</sup> /day	DIN EN 12086
Deformation	<= 5.0 %	<= 5.0 %	DIN EN 1605
	@Pressure 0.0400 MPa, Temperature 70.0 °C	@Pressure 5.80 psi, Temperature 158 °F	

Mechanical Properties	Metric	English	Comments
Creep Strength	0.100 MPa	14.5 psi	Compressive; DIN EN 1606
	@Strain <=2.00 %	@Strain <=2.00 %	
Compressive Strength	0.250 MPa	36.3 psi	DIN EN 826
	@Strain 10.0 %	@Strain 10.0 %	
Compressive Modulus	0.0150 GPa	2.18 ksi	Elasticity; Short term E; DIN EN 826

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.00 µm/m-°C	4.44 µin/in-°F	DIN 53752
CTE, linear, Transverse to Flow	6.00 µm/m-°C	3.33 µin/in-°F	DIN 53752
Thermal Conductivity	0.0330 W/m-K	0.229 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 0%
	0.0340 W/m-K	0.236 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 1%
			Moisture Content: 2%

Thermal Properties	0.0340 W/m-K Metric	0.236 BTU-in/hr-ft <sup>2</sup> -°F English	Comments
	0.0350 W/m-K	0.243 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 3%
	0.0350 W/m-K	0.243 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 4%
	0.0360 W/m-K	0.250 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 5%
	0.0370 W/m-K	0.257 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 6%
	0.0380 W/m-K	0.264 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 8%
	0.0390 W/m-K	0.271 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 10%
	0.0400 W/m-K	0.278 BTU-in/hr-ft <sup>2</sup> -°F	Moisture Content: 12%
	0.0240 W/m-K @Temperature -80.0 °C	0.167 BTU-in/hr-ft <sup>2</sup> -°F @Temperature -112 °F	
	0.0260 W/m-K @Temperature -60.0 °C	0.180 BTU-in/hr-ft <sup>2</sup> -°F @Temperature -76.0 °F	
	0.0280 W/m-K @Temperature -40.0 °C	0.194 BTU-in/hr-ft <sup>2</sup> -°F @Temperature -40.0 °F	
	0.0300 W/m-K @Temperature -20.0 °C	0.208 BTU-in/hr-ft <sup>2</sup> -°F @Temperature -4.00 °F	
	0.0320 W/m-K @Temperature 0.000 °C	0.222 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 32.0 °F	
	0.0330 W/m-K @Temperature 10.0 °C	0.229 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 50.0 °F	
	0.0340 W/m-K @Temperature 20.0 °C	0.236 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 68.0 °F	
	0.0350 W/m-K @Temperature 30.0 °C	0.243 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 86.0 °F	
	0.0360 W/m-K @Temperature 40.0 °C	0.250 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 104 °F	
	0.0370 W/m-K @Temperature 50.0 °C	0.257 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 122 °F	
	0.0310 W/m-K @Thickness 30.0 mm	0.215 BTU-in/hr-ft <sup>2</sup> -°F @Thickness 1.18 in	DIN EN 13164

Thermal Properties	0.0320 W/m-K Metric	0.222 BTU-in/hr-ft <sup>2</sup> -°F English	Comments DIN EN 13164
	@Thickness 40.0 mm	@Thickness 1.57 in	
	0.0330 W/m-K @Thickness 50.0 mm	0.229 BTU-in/hr-ft <sup>2</sup> -°F @Thickness 1.97 in	DIN EN 13164
	0.0340 W/m-K @Thickness 60.0 mm	0.236 BTU-in/hr-ft <sup>2</sup> -°F @Thickness 2.36 in	DIN EN 13164
	0.0350 W/m-K @Thickness 80.0 mm	0.243 BTU-in/hr-ft <sup>2</sup> -°F @Thickness 3.15 in	DIN EN 13164
Maximum Service Temperature, Air	75.0 °C	167 °F	DIN EN 14706

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Dimensional Stability at Heat	< 5%	70°C, 90% rh; DIN EN 1604
Freeze-Thaw-Resistance	<1%	DIN EN1209

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China