

Styrolution Novodur® 5300 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

Novodur 5300 is a high heat injection molding grade with high impact strength, good chemical resistance and reduced emission (PC modified) Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Novodur-5300-ABS.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ISO 294-4
Melt Flow	5.0 g/10 min @Load 10.0 kg, Temperature 220 °C	5.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	100 MPa	14500 psi	ISO 2039-1
Tensile Strength, Yield	49.0 MPa	7110 psi	ISO 527
Elongation at Yield	2.9 %	2.9 %	ISO 527
Tensile Modulus	2.35 GPa	341 ksi	ISO 527
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	32.0 kJ/m ² @Temperature 23.0 °C	15.2 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	18.0 J/cm ² @Temperature -30.0 °C	85.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	1.20 J/cm ²	5.71 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.20 J/cm ²	15.2 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	106 Å°C	223 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Å°C	210 Å°F	ISO 75
Vicat Softening Point	106 Å°C	223 Å°F	50Å°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.1	3.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0040	0.0040	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0090	0.0090	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 Å°C	464 Å°F	ISO 294
Mold Temperature	70.0 Å°C	158 Å°F	ISO 294
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294
Drying Temperature	80.0 Å°C	176 Å°F	
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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