

HIVAL® 5303

High Impact Polystyrene

Nexeo Solutions, LLC.

Message:

HIVAL® 5303 is a high impact polystyrene material. This product is available in North America and is processed by extrusion or injection molding.

HIVAL® The main features of the 5303 are:

- ROHS certification
- BPA free
- accessible food

HIVAL® Typical application areas of 5303 are: food contact applications

General Information			
Features	Compliance of Food Exposure		
	BPA-free		
Agency Ratings	FDA 21 CFR 177.1640		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1930	MPa	ASTM D638
Tensile Strength (Yield)	27.6	MPa	ASTM D638
Flexural Modulus	1930	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	160	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.6	°C	ASTM D648
Vicat Softening Temperature	93.3	°C	ASTM D1525

Injection	Nominal Value	Unit
Rear Temperature	199 - 232	°C
Middle Temperature	204 - 232	°C
Front Temperature	218 - 260	°C
Nozzle Temperature	218 - 260	°C
Processing (Melt) Temp	218 - 274	°C

Injection instructions

Screw Speed: SlowInjection Speed: Slow - Fast

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	193 - 227	°C
Cylinder Zone 3 Temp.	199 - 232	°C
Cylinder Zone 5 Temp.	204 - 243	°C
Die Temperature	210 - 232	°C

Extrusion instructions

Screw L/D: 20:01Compression Ratio: 2:1-3:1

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

