

CarboSil™ 5 90A

Thermoplastic Polyurethane Elastomer (PC Based)

DSM Biomedical Inc.

Message:

CarboSil™ 5 90A is a Thermoplastic Polyurethane Elastomer (PC Based) (TPU-PC) product. It can be processed by coating, compression molding, dip coating, extrusion, injection molding, or spraying and is available in North America. Applications of CarboSil™ 5 90A include medical/healthcare and food contact applications.

Characteristics include:

- Biocompatible
- Good Processability
- Good Toughness

General Information			
Features	Biocompatible		
	Good Processability		
	Good Strength		
	Good Toughness		
	Oxidation Resistant		
Uses	Medical/Healthcare Applications		
Agency Ratings	DMF Unspecified Rating		
	FDA Unspecified Rating		
Appearance	Clear Amber		
	Translucent		
Forms	Pellets		
Processing Method	Coating		
	Compression Molding		
	Dip Coating		
	Extrusion		
	Injection Molding		
	Spraying		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/1.2 kg)	18	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	54.2	MPa	ASTM D1708
Tensile Stress			ASTM D1708

50% Strain	8.30	MPa	
100% Strain	11.2	MPa	
300% Strain	33.6	MPa	
Tensile Elongation (Break)	440	%	ASTM D1708
Extrusion	Nominal Value	Unit	
Melt Temperature	188 to 210	°C	

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

