

CarboSil™ 20 80A

Thermoplastic Polyurethane Elastomer (PC Based)

DSM Biomedical Inc.

Message:

CarboSil™ 20 80A 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™ 20 80A 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	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/1.2 kg)	52	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	35.1	MPa	ASTM D1708
Tensile Stress			ASTM D1708

50% Strain	4.85	MPa	
100% Strain	6.52	MPa	
300% Strain	17.1	MPa	
Tensile Elongation (Break)	470	%	ASTM D1708
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-7.00	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Melt Temperature	188 to 210	°C	

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