CarboSil™ 20 55D

Thermoplastic Polyurethane Elastomer (PC Based)

DSM Biomedical Inc.

Message:

CarboSil™ 20 55D 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 55D 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	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/1.2 kg)	17	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Ultimate)	42.6	MPa	ASTM D1708
Tensile Stress			ASTM D1708

50% Strain	13.3	MPa	
100% Strain	17.0	MPa	
300% Strain	37.9	MPa	
Tensile Elongation (Break)	340	%	ASTM D1708
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	5.00	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Melt Temperature	188 to 210	°C	

Recommended distributors for this material

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