

CPT C-Flex® R70-051 Clear Biocompatible TPE

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

C-Flex® is a family of patented thermoplastic elastomers which range in hardness from 5 shore A to 95 shore A. C-Flex® TPE's are biocompatible polymer blends which meet or exceed the current United States Pharmacopoeia Class VI test requirements. C-Flex® does not contain latex rubber, polyvinyl chloride, silicone rubber, or polyurethane. Information provided by Consolidated Polymer Technologies.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CPT-C-Flex-R70-051-Clear-Biocompatible-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	ASTM D 792
Linear Mold Shrinkage	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	
Melt Flow	5.9 g/10 min	5.9 g/10 min	Condition E; ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	1 sec.; ASTM D 2240
Tensile Strength at Break	7.295 MPa	1058 psi	ASTM D 412
Elongation at Break	609 %	609 %	ASTM D 412
100% Modulus	0.00255 GPa	0.370 ksi	ASTM D 412
300% Modulus	0.00393 GPa	0.570 ksi	ASTM D 412
Tear Strength	22.8 kN/m	130 pli	Die C; ASTM D 624
	26.3 kN/m	150 pli	Notched, Die B; ASTM D 624
Taber Abrasion, mg/1000 Cycles	7.6	7.6	Federal Test Method Standard, 405
Compression Set	28 %	28 %	23°C; ASTM D 412
	59 %	59 %	ASTM D 412
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Set	37 %	37 %	at 300% elongation; ASTM D 412
	123 %	123 %	at break; ASTM D 412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-63.3 °C	-82.0 °F	ASTM D 746

Optical Properties	Metric	English	Comments
Haze	59 %	59 %	ASTM D 1033A
Transmission, Visible	88 %	88 %	ASTM D 1033A

Processing Properties	Metric	English	Comments
Processing Temperature	163 - 204 °C	325 - 400 °F	Extrusion Temperature
Middle Barrel Temperature	149 - 218 °C	300 - 425 °F	Injection molding cylinder temperature
Drying Temperature	65.6 - 93.3 °C	150 - 200 °F	Desiccant type
Injection Pressure	2.07 - 6.89 MPa	300 - 1000 psi	

Descriptive Properties	Value	Comments
Sterilization methods:	Steam/Autoclave, Cobalt 60, Ethylene Oxide	

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