

MRC Polymers NAXELL, PC429MHI Polycarbonate, Impact Modified

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

Material Notes:

• Medium MFR • Good property retention, heat and dimensional stability • Available in natural and custom colors • Can be UV Stabilized • Internal and external lubricants can be added
Information provided by MRC Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MRC-Polymers-NAXELL-PC429MHI-Polycarbonate-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 1183-1A
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D 955
Melt Flow	12 g/10 min @Load 1.20 kg, Temperature 300 °C	12 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.0 MPa	8410 psi	ISO 527
Flexural Strength	86.0 MPa	12500 psi	ISO 178
Flexural Modulus	2.268 GPa	328.9 ksi	ISO 178
Izod Impact, Notched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO 180
Impact Test	47.0 J @Temperature 23.0 °C	34.7 ft-lb @Temperature 73.4 °F	3.2 mm, 2.2m/s. Instrumented Impact; ASTM D 3763
	48.0 J @Temperature -30.0 °C	35.4 ft-lb @Temperature -22.0 °F	3.2 mm, 2.2m/s. Instrumented Impact; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.4 µm/m-°C @Temperature -30.0 - 100 °C	41.3 µin/in-°F @Temperature -22.0 - 212 °F	ASTM E 831
CTE, linear, Transverse to Flow	78.1 µm/m-°C @Temperature -30.0 - 100 °C	43.4 µin/in-°F @Temperature -22.0 - 212 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	124 °C	255 °F	ISO 75

Thermal Properties ure at 1.8 MPa
(264 psi)

Metric 

English

Comments

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