

UNITREX® Lf20

Polyetheretherketone

Nytec Plastics, Ltd.

Message:

UNITREX Lf20 extruded thermoplastic shapes provide users with improved physical properties compared to standard, unfilled PEEK grades through the addition of a proprietary PTFE filler.

UNITREX Lf20 offers very good dimensional stability and machinability as well as exceptional wear resistance due to its low coefficient of friction. Available in a wide array of rod, tube and plate configurations by special order.

General Information			
Additive	PTFE Lubricant		
Features	Good Dimensional Stability		
	Good Wear Resistance		
	Low Friction		
	Lubricated		
	Machinable		
Uses	Rods		
	Tubing		
Agency Ratings	FDA Unspecified Rating		
	USDA Unspecified Approval		
Appearance	Beige		
	Grey		
Forms	Preformed Parts		
	Rod		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.060	%	
Saturation	0.35	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength (Yield)	79.3	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790

Flexural Strength	138	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.10		
vs. Itself - Static	0.10		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	171	°C	ASTM D648
Glass Transition Temperature	143	°C	ASTM E1356
Peak Melting Temperature	343	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	V-0		UL 94

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