

Duron PA 6,6 20GF-IML

Polyamide 66

ProPolymers Inc.

Message:

Duron PA 6,6 20GF-HSL is an impact modified, nucleated 20% glass reinforced nylon 6,6 that offers a superior combination of mechanical, electrical, and thermal properties. It is lubricated which improves mold release and surface finish. Duron PA provides outstanding processability and good chemical resistance.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Impact Modifier		
	Lubricant		
	Nucleating Agent		
Features	Good Chemical Resistance		
	Good Mold Release		
	Good Processability		
	Good Surface Finish		
	Impact Modified		
	Lubricated		
	Nucleated		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.40 to 0.60	%	
Across Flow : 3.18 mm	0.70 to 0.80	%	
Water Absorption (24 hr)	0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	117	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	7.0	%	ASTM D638
Flexural Modulus (23°C)	5960	MPa	ASTM D790
Flexural Strength (23°C)	194	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	254	°C	

1.8 MPa, Unannealed	232	°C	
Melting Temperature	249	°C	
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM D696

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