

## Ineos ABS Lustran® Guardian,ç 620 ABS, Extrusion Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

### Material Notes:

Lustran® Guardian,ç ABS 620 is a high modulus, HFC 134a and HCFC 22 resistant extrusion grade resin designed for refrigerator door and food liners. Lustran® ABS 620 offers good melt strength and deep draw formability for superior material distribution in large complex parts.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-Lustran-Guardian-620-ABS-Extrusion-Grade.php](http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-Guardian-620-ABS-Extrusion-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM-D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.7 MPa	4600 psi	ASTM-D638
Tensile Strength, Yield	38.6 MPa	5600 psi	ASTM-D638
Elongation at Break	45 %	45 %	ASTM-D638
Elongation at Yield	0.62 %	0.62 %	50/50 CO/OA, Critical
Tensile Modulus	2.62 GPa	380 ksi	ASTM-D638
Flexural Yield Strength	70.3 MPa	10200 psi	ASTM-D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM-D790
Izod Impact, Notched	0.908 J/cm	1.70 ft-lb/in	1/8" x 1/2" bar; ASTM-D256 (Method A)
	@Temperature -17.8 Å°C	@Temperature 0.000 Å°F	
Impact Test	2.72 J/cm	5.10 ft-lb/in	1/8" x 1/2" bar; ASTM-D256 (Method A)
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
Impact Test	13.6 J	10.0 ft-lb	Multiaxial Impact, Driven Dart; 1/2" dart, 1-1/2" ring; E-max; ASTM-D3763
	@Temperature -17.8 Å°C	@Temperature 0.000 Å°F	
	14.9 J	11.0 ft-lb	
Impact Test	@Temperature -17.8 Å°C	@Temperature 0.000 Å°F	Multiaxial Impact, Driven Dart; 1/2" dart, 1-1/2" ring; E-tot; ASTM-D3763
	33.9 J	25.0 ft-lb	
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	Charpy Impact, Driven Dart, 1/2" dart, 1-1/2" ring; E-tot; ASTM-D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	97.8 Å°C	208 Å°F	ASTM-D648
Flammability, UL94	HB @Thickness 1.05 mm	HB @Thickness 0.0413 in	

Optical Properties	Metric	English	Comments
Gloss	98 %	98 %	Angle 60Å°; Gardner

Processing Properties	Metric	English	Comments
Die Temperature	210 - 250 Å°C	410 - 482 Å°F	
Melt Temperature	238 - 260 Å°C	460 - 500 Å°F	Extruder
Roll Temperature	74.0 Å°C	165 Å°F	Down Stack, Middle
	93.0 Å°C	199 Å°F	Down Stack, Bottom
	93.0 Å°C	199 Å°F	Down Stack, Top
Drying Temperature	82.0 - 90.0 Å°C @Time 10800 - 14400 sec	180 - 194 Å°F @Time 3.00 - 4.00 hour	
Moisture Content	<= 0.030 %	<= 0.030 %	

Descriptive Properties	Value	Comments
Pump Ratio	1.5-2.0	Extrusion
Screw Compression Ratio	2.5-2.7	Extrusion

## Contact Songhan Plastic Technology Co.,Ltd.

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