VERSOLLAN™ OM 1262NX-1
GLS Corp., Thermoplastic Elastomers Div. - Thermoplastic Polyurethane Elastomer, Unspecified

Tuesday, April 29, 2008

General Information

Product Description

Versollan™ OM 1262NX-1 is a performance TPU alloy designed for thin-wall overmolding onto polycarbonate (PC), ABS and PC/ABS substrates.

General

Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East • Asia Pacific • Europe	• North America • South America
Features	• Adhesion, Good • Soft	
Uses	• Overmolding	
Appearance	• Matte Finish • Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM and ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
(190°C/2.16 kg)	11		
(200°C/5.0 kg)	64		
Molding Shrink (Flow)	0.90 to 1.5		ASTM D955

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress at 100% (73.4 °F)	370		ASTM D412 [2]
Tensile Stress at 300% (73.4 °F)	560		ASTM D412 [2]
Tensile Strength at Break (73 °F)	1840		ASTM D412 [2]
Elongation at Break (73.4 °F)	640		ASTM D412 [2]
Tear Strength (73 °F, Die C)	230		ASTM D624
Compression Set (22.0 hr)	35		ASTM D395 [3]

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	65		ASTM D2240

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (0.0591 in)	HB		UL 94

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392 °F, 11200 sec^-1)	20.0		ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120 to 130	
Drying Time	3.0 to 4.0	
Suggested Max Moisture	0.10	
Suggested Max Regrind	20	
Rear Temperature	325 to 365	

Middle Temperature	360 to 390
Front Temperature	370 to 410
Nozzle Temperature	380 to 420
Mold Temperature	70.0 to 100
Injection Pressure	200 to 900
Back Pressure	0.00 to 80.0
Screw Speed	25 to 75

Injection Notes

Holding Pressure: 30% of Boost
Injection Velocity: 0.5 to 2 in/sec
Hold Time (Thick Part): 4 to 10 sec
Hold Time (Thin Part): 1 to 3 sec
Suggested Dewpoint: -40°F

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Die C

[3] Method B