

PolyOne Versollan™ OM 1255NX-9 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Versollan™ OM 1255NX-9 is a performance TPU alloy designed for thin wall overmolding onto polycarbonate (PC), ABS and PC/ABS substrates. - Improved Grip with Matte, Rubbery Finish - Superior Adhesion to PC, ABS, PC/ABS, PC/PBT and CopolyesterPurge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP). Regrind levels up to 20% can be used with Versollan™ OM 1255NX-9 with minimal property loss, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should remain as low as possible. The final determination of regrind effectiveness should be determined by the customer. The Versollan™ OM 1255NX-9 should not be left in the barrel for extended idle periods (greater than 5 minutes). Suggested Dewpoint: -40°F Injection Speed: 0.5 to 2 in/sec 1st Stage - Boost Pressure: 200 to 800 psi 2nd Stage - Hold Pressure: 30% of Boost Hold Time (Thick Part): 4 to 10 sec Hold Time (Thin Part): 1 to 3 secInformation provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Versollan-OM-1255NX-9-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Viscosity	16700 cP @Shear Rate 11200 1/s, Temperature 200 °C	16700 cP @Shear Rate 11200 1/s, Temperature 392 °F	ASTM D3835
Maximum Moisture Content	0.020 - 0.030	0.020 - 0.030	
Linear Mold Shrinkage, Flow	0.011 - 0.017 cm/cm	0.011 - 0.017 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	60 g/10 min @Load 5.00 kg, Temperature 200 °C	60 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59	59	10 sec; ASTM D2240
Tensile Strength at Break	6.58 MPa @Temperature 23.0 °C	954 psi @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tensile Stress	1.93 MPa @Strain 100 %, Temperature 23.0 °C	280 psi @Strain 100 %, Temperature 73.4 °F	Die C2 hr; ASTM D412

Mechanical Properties	3.39 MPa Metric	492 psi English	Comments Die C2 hr; ASTM D412
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	
Elongation at Break	650 % @Temperature 23.0 °C	650 % @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tear Strength	38.5 kN/m	220 pli	ASTM D624
Compression Set	24 % @Temperature 23.0 °C, Time 79200 sec	24 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-68.5 °C	-91.3 °F	Thickness = 1.90mm Conditioned for 40hrs at 23C at 50% RH; ASTM D746
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	163 - 188 °C	325 - 370 °F	
Middle Barrel Temperature	182 - 199 °C	360 - 390 °F	
Front Barrel Temperature	188 - 210 °C	370 - 410 °F	
Nozzle Temperature	193 - 216 °C	379 - 421 °F	
Mold Temperature	21.1 - 48.9 °C	70.0 - 120 °F	
Drying Temperature	51.7 - 54.4 °C	125 - 130 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	
Back Pressure	0.000 - 0.552 MPa	0.000 - 80.1 psi	
Screw Speed	75 - 125 rpm	75 - 125 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	UL 94 .QMFZ2.E76261	
Appearance	Black	
Features	Good Moldability	
	Good Processability	
	Low Gloss	

Descriptive Properties Forme	Value Pellets	Comments
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Suggested Max Regrind	20%	
Uses	Business Equipment	
	Consumer Applications	
	Electrical/Electronic Applications	
	Flexible Grips	
	Overmolding	
	Power/Other Tools	
	Thin-walled Parts	

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