

PolyOne Versollan™ RU 2205-9 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Versollan™ RU 2205-9 is the first of a new class of high performance, injection moldable TPU alloys developed to offer a rubbery feel and appearance, reduced cycle times, combined with the performance properties associated with TPUs. New Product. Commercial specifications have not been established. - Bonds to PC, ABS, PC/ABS, and Copolyester - Excellent Abrasion Resistance - Fast Set Up Rates During Processing - Matte Finish - Rubbery, Soft Touch Feel - Very Good Oil ResistancePurge 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™ RU 2205-9 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. Versollan™ RU 2205-9 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: 300 to 700 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-RU-2205-9-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Viscosity	14100 cP @Shear Rate 11200 1/s, Temperature 200 °C	14100 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	0.010 - 0.015 cm/cm	0.010 - 0.015 in/in	ASTM D955
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 190 °C	7.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	67 g/10 min @Load 5.00 kg, Temperature 200 °C	67 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	10 sec; ASTM D2240
Tensile Strength at Break	13.8 MPa @Temperature 23.0 °C	2000 psi @Temperature 73.4 °F	Die C2 hr; ASTM D412
	2.62 MPa	380 psi	

Tensile Stress Mechanical Properties	Metric @Strain 100 %, Temperature 23.0 °C	English @Strain 100 %, Temperature 73.4 °F	Die C2 hr; ASTM D412 Comments
	4.21 MPa	611 psi	Die C2 hr; ASTM D412
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	
Elongation at Break	710 %	710 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	47.3 kN/m	270 pli	ASTM D624
Compression Set	34 %	34 %	ASTM D395B
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-67.0 °C	-88.6 °F	Thickness = 1.91mm Conditioned for 40hrs at 23C at 50% RH; ASTM D746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	168 - 188 °C	334 - 370 °F	
Middle Barrel Temperature	179 - 199 °C	354 - 390 °F	
Front Barrel Temperature	191 - 210 °C	376 - 410 °F	
Nozzle Temperature	191 - 216 °C	376 - 421 °F	
Melt Temperature	188 - 210 °C	370 - 410 °F	
Mold Temperature	21.1 - 32.2 °C	70.0 - 90.0 °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 - 0.862 MPa	0.000 - 125 psi	
Screw Speed	75 - 125 rpm	75 - 125 rpm	

Descriptive Properties	Value	Comments
Appearance	Black	
Features	Good Abrasion Resistance	
	Oil Resistant	
Forms	Pellets	

Descriptive Properties	TPE Value	Comments
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Extrusion	
	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Suggested Max Regrind	20%	
Uses	Consumer Applications	
	Furniture	
	Overmolding	
	Power/Other Tools	
	Soft Touch Applications	

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