

PolyOne Versollan™ RU 2204X Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Versollan™ RU 2204X 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. - Bonds to PC, ABS, PC/ABS, and Copolyester - Excellent Abrasion Resistance - Fast Set Up Rates During Processing - Good Chemical and Oil Resistance - Matte Finish - Rubbery, Soft Touch Feel Color concentrates with EVA or LDPE carrier are most suitable for coloring Versollan™ RU 2204X. Typical letdown ratios are 50:1 to 25:1 - loading levels should be as low as possible to minimize the effect on adhesion. A high color match consistency can be obtained by the use of precolored compounds available from GLS. Concentrates based on PVC should not be used. The final determination of color concentrate suitability should be determined by customer trials. Purge 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 2204X 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 2204X 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 sec Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Versollan-RU-2204X-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Viscosity	13900 cP	13900 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
Maximum Moisture Content	69000 cP	69000 cP	ASTM D3835
	@Shear Rate 1340 1/s, Temperature 200 °C	@Shear Rate 1340 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	ASTM D955
Melt Flow	11 g/10 min	11 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Melt Flow	76 g/10 min	76 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	10 sec; ASTM D2240
Tensile Strength at Break	12.4 MPa @Temperature 23.0 °C	1800 psi @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tensile Stress	1.86 MPa @Strain 100 %, Temperature 23.0 °C	270 psi @Strain 100 %, Temperature 73.4 °F	Die C2 hr; ASTM D412
	3.03 MPa @Strain 300 %, Temperature 23.0 °C	439 psi @Strain 300 %, Temperature 73.4 °F	Die C2 hr; ASTM D412
Elongation at Break	690 % @Temperature 23.0 °C	690 % @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tear Strength	42.0 kN/m	240 pli	ASTM D624
Compression Set	26 % @Temperature 23.0 °C, Time 79200 sec	26 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	163 - 188 °C	325 - 370 °F	
Middle Barrel Temperature	182 - 193 °C	360 - 379 °F	
Front Barrel Temperature	188 - 210 °C	370 - 410 °F	
Nozzle Temperature	193 - 216 °C	379 - 421 °F	
Melt Temperature	188 - 210 °C	370 - 410 °F	
Mold Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	
Drying Temperature	48.9 - 54.4 °C	120 - 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
Appearance	Natural Color	
Features	Good Abrasion Resistance	

Descriptive Properties	Value	Chemical Resistance	Comments
		Oil Resistant	
Generic Material		TPE	
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	
Suggested Max Regrind		20%	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China