

Versollan™ RU 2205-1

Thermoplastic Elastomer

PolyOne Corporation

Message:

Versollan™RU 2205-1 is the first product of a new generation of high-performance polyurethane (TPU) alloys that can be molded by injection molding. It can produce a rubber-like feel and appearance and shorten the cycle period, while having the performance of TPU.

New Products. Commercial norms have not yet been established.

can bond with PC, ABS, PC/ABS and copolyester

Good wear resistance

Short preparation time during processing

Matte surface

Similar to rubber, soft to the touch

oil resistance is good

General Information	
UL YellowCard	E76261-101061820
Features	Good wear resistance
	Oil resistance
Uses	overmolding
	Power/other tools
	Furniture
	Soft touch application
	Consumer goods application field
Agency Ratings	UL 94 .QMFZ2.E76261
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	7.0	g/10 min	ASTM D1238
200°C/5.0 kg	67	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 - 1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	65		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% strain, 23°C ²	2.62	MPa	ASTM D412

300% strain, 23°C ³	4.21	MPa	ASTM D412
Tensile Strength (Break, 23°C)	13.8	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	710	%	ASTM D412
Tear Strength	47.3	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	34	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ⁴	-67.0	°C	ASTM D746
Flammability	Nominal Value		Test Method
Flame Rating ⁵ (1.50 mm)	HB		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 11200 sec ⁻¹)	14.1	Pa·s	ASTM D3835
Injection	Nominal Value	Unit	
Drying Temperature	51.7 - 54.4	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	< 0.030	%	
Suggested Max Regrind	20	%	
Rear Temperature	168 - 188	°C	
Middle Temperature	179 - 199	°C	
Front Temperature	191 - 210	°C	
Nozzle Temperature	191 - 216	°C	
Processing (Melt) Temp	188 - 210	°C	
Mold Temperature	21.1 - 32.2	°C	
Back Pressure	0.00 - 0.862	MPa	
Screw Speed	75 - 125	rpm	
Injection instructions			

或聚醚型聚氨酯为基础的色母料最适合 Versollan™ RU 2205-1 着色.典型的母料浓度为 50:1 到 25:1 - 要最大限度减少对硬度的影响,用量应该尽可能低.若使用 GLS 可供的预着色复合材料,则可达到较好的配色一致性.不推荐使用以聚丙烯 (PP) 为基础的色母料,因为其对 TPE 与基体之间的粘接会有显著影响.不应采用以 TPE 为基础的色母料.色母料是否适用,应由用户通过试验来最终确定.在使用此产品之前或之后,均须用熔体流动速率较低 (0.5 - 2.5 MFR) 的聚乙烯 (PE) 或聚丙烯 (PP) 彻底进行置换.Versollan™ RU 2205-1 可利用高达 20% 的回收料同时其性能所受影响却极小,但该回收料必须是未受到污染的.为了最大限度地减小模塑期间其性能所受的影响,熔体温度应维持得尽可能低.回收料的有效性应由用户最终确定.Versollan™ RU 2205-1 不应在机筒内闲置过长时间(5 分钟以上).建议露点:-40°F注射速度:0.5 - 2 英寸/秒第一阶段 - 提升压力:300 - 700 psi第二阶段 - 保持压力:30% 的升压保持时间(厚部件):4 - 10 秒保持时间(薄部件):1 - 3 秒

NOTE	
1.	2 hours
2.	Mouth die c
3.	C mould
4.	Thickness = 1.91mmConditioned for 40hrs at 23C at 50% RH
5.	1.5mm for US and China; 3.0mm for Canada.

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