



reSound™ X RS1200-0215

Polylactic Acid Compound

Key Characteristics

Product Description			
PolyOne's exclusive reSound™ biopolymer compounds combine engineering thermoplastic resins with bio-derived polymers such as PLA, PHB, PHBV and bio-polyesters. These compounds offer a unique balance of temperature, impact and cost performance, making them an ideal candidate in durable applications across a variety of industries.			
General			
Material Status	• Commercial: Active		
Regional Availability	• North America		
Filler / Reinforcement	• Filler, 15% Filler by Weight		
Features	• Cleanable	• Good Impact Resistance	• Renewable Resource Content
	• Good Chemical Resistance	• Good Toughness	
	• Good Color Stability	• Medium Heat Resistance	
Uses	• Appliance Components	• Consumer Applications	• Housings
	• Appliances	• Electrical/Electronic Applications	• Kitchenware
	• Automotive Interior Parts	• Household Goods	• Medical/Healthcare Applications
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.21	1.21	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	6.0E-3 in/in	0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	8600 psi	59.3 MPa	ASTM D638
Tensile Elongation ³ (Break)	7.0 %	7.0 %	ASTM D638
Flexural Modulus ⁴	441000 psi	3040 MPa	ASTM D790
Flexural Strength ⁴	14200 psi	97.8 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.90 ft-lb/in	48 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	244 °F	118 °C	
Additional Information			
This product contains 30% by weight renewable resource content.			

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.1 mm/min)

³ Type I, 0.20 in/min (5.1 mm/min)

⁴ 0.050 in/min (1.3 mm/min)

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