

TYRIL™ 875 SAN Resin

Overview

TYRIL* Styrene-acrylonitrile (SAN) resins are designed to offer superior chemical resistance, strength, hardness and dimensional stability in a broad range of product applications. The key property of TYRIL 875 is specifically designed to provide good processability, good chemical resistance, heat resistance, very good strength and optimal aesthetics.

Applications

- Small appliances: transparent kitchen-robot parts

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.08 g/cm ³	1.08 g/cm ³	ISO 1183/B
Apparent (Bulk) Density	0.69 g/cm ³	0.69 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	6.5 g/10 min	6.5 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	537000 psi	3700 MPa	ISO 527-2
Tensile Stress (Break)	10200 psi	70.0 MPa	ISO 527-2/5
Flexural Stress ^{1, 2}	14100 psi	97.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Unnotched Impact Strength 73°F (23°C)	8.1 ft·lb/in ²	17 kJ/m ²	ISO 179/1eU
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Annealed	214 °F	101 °C	ISO 75-2/A
Vicat Softening Temperature	232 °F	111 °C	ISO 306/A120
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ³ (0.06 in (1.5 mm))	HB	HB	UL 94

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.079 in/min (2.0 mm/min)

² 3-points

³ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.



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