PA12

Grilamid® TR 55

EMS-Chemie

Position #113 · Jinsutong Reference Catalog 2026

Resin Overview

PA12 · Transparent, Optical. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	EMS-Chemie
Category	PA12 · Transparent, Optical
Typical Use	Optical components, sight glasses, medical

Key Properties

Density	1.01 g/cm³
MVR (235°C/5 kg)	20 cm³/10min
Melting Point (DSC)	178 °C
Tensile Strength at Yield	50 MPa
Elongation at Break	250%
Notched Izod Impact (23°C)	8 kJ/m²
Light Transmittance (2mm)	90%
HDT (0.45 MPa)	130 °C

Key Features

- Transparent amorphous PA12
- High optical clarity
- Low moisture absorption
- Easy to process for optical use

Processing Conditions

Melt Temperature	220-270 °C
Mold Temperature	40-80 °C
Drying	4-6 h @ 80 °C in desiccant dryer
Processing Methods	Injection molding, extrusion

Typical Applications

- Optical sight glasses
- Medical device windows
- Sensor housings (transparent)
- Optical data storage

Regulatory & Compliance

- USP Class VI
- FDA food contact available
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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