

# performanceplastics

## Grilamid TR55

Clear transparent, nylon 12 grade.

Property	Test Method	Unit		Value
<b>Mechanical</b>				
Density	ISO 1183	g/cm <sup>3</sup>	dry	1.06
Tensile E Modulus	ISO 527	MPa	dry	2200
	ISO 527	MPa	cond	
Tensile strength at yield	ISO 527	MPa	dry	75
	ISO 527	MPa	cond	
Elongation at yield	ISO 527	%	dry	9
	ISO 527	%	cond	
Tensile strength at break	ISO 527	MPa	dry	50
	ISO 527	MPa	cond	
Elongation at break	ISO 527	%	dry	>50
	ISO 527	%	cond	
Charpy notched impact 23°C	ISO 179/1eA	KJ/m <sup>2</sup>	dry	8
	ISO 179/1eA	KJ/m <sup>2</sup>	cond	
Charpy notched impact -30°C	ISO 179/1eA	KJ/m <sup>2</sup>	dry	7
	ISO 179/1eA	KJ/m <sup>2</sup>	cond	
<b>Thermal</b>				
Melting Point	ISO 11357	°C	dry	160
HDT A (1.8 MPa)	ISO 75	°C	dry	130
Coefficient of linear thermal expansion (long) 23 - 80°C	ISO 11359	10 <sup>-4</sup> /K	dry	0.8
Coefficient of linear thermal expansion (trans) 23 - 80°C	ISO 11359	10 <sup>-4</sup> /K	dry	0.8
Maximum usage Temp. (long term)	EMS	°C	dry	80-100
Maximum usage Temp. (short term)	EMS	°C	dry	120
<b>Electrical</b>				
Comparative tracking index (CTI)	IEC 112		dry	600
	IEC 112		cond	
<b>Behavioural</b>				
Flammability (1.5mm)	UL94	Rating		V2
Water absorption	ISO 62	%	(23°C/sat)	3.5
Moisture absorption	ISO 62	%	(23°C/50% RH)	1.5
<b>Mould Shrinkage</b>				
Linear	ISO 294	%	dry	0.6
Transverse	ISO 294	%	dry	0.7

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products. Prospective users should determine the suitability of materials before adopting them on a commercial scale.

### Features

- Clear Transparency also in High Wall Thickness
- Good Light Natural Colour
- Tough and Stiff
- Good Flammability Rating
- High Heat Deflection
- Low density

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