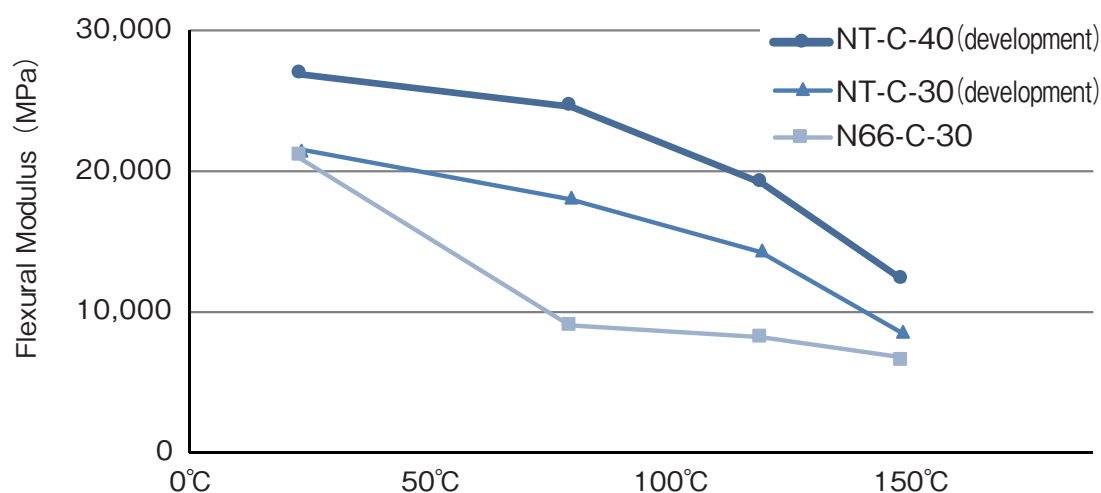


# Proposal: Carbon-Fiber Reinforced polyamide PYROFIL™ pellet NT-C-40 for light weight

## Characteristics and Advantages

- High modulus, high strength and light weight
- Low water absorption and high Tg (>100°C)
- Easy to process because of thermoplastics



MCC method based on JIS K7171

		NT-C-40 (development)	NT-C-30 (development)	N66-C-30
Flexural Modulus	MPa	27,000	21,500	21,000
Flexural Strength	MPa	421	379	401
Tensile Strength	MPa	273	240	260
Charpy Impact Strength	kJ/m <sup>2</sup>	8	9	9
Density	g/cm <sup>3</sup>	8	9	9

\*) MCC method based on JIS K7171, K7161, K7111-1 and K7112

\*) All technical information and data are typical values, and are not standard values.

## Applicable components

- Development of parts for high Tg instead of metal

## Proposal for the future

- Low water absorption, High Tg → More polymer parts
- High strength, Injection molding → Less number of parts

Mobility Segment, East Japan Branch  
Mitsubishi Chemical Corporation

TEL:+81-3-6748-7531