

NOVODUR® P4XF

High flow ABS for large housing parts in household and electronics applications



APPLICATION HOUSING:

FASTER, MATERIAL SAVINGS, HIGHER SURFACE QUALITY

Novodur® P4XF was designed to enable the fast production of large housing parts. A high flowability and short cooling times contribute to achieving that goal. Furthermore, lower injection pressure even enables the use of smaller injection molding machines, saving overall energy consumption. A reduction of wall thickness allows for material savings and an increased assembly space, as well as reduced cycle time and higher productivity. At the same time Novodur® P4XF offers a broader processing window that increases freedom of tool design leading to further saving potentials contributing to a lower carbon footprint of the part.

PRODUCT PROPERTIES:

Property	Norm	Unit	Novodur® P4XF
MVR (220 °C/10 kg)	ISO 1133	cm ³ /10 min	60
Charpy (notched, 23 °C)	ISO 179/1eA	kJ/m ²	14
Hardness	ISO 2039-1	MPa	105
Vicat (VST/B/120)	ISO 306	°C	98
HDT A	ISO 75	°C	90
Tensile Modulus	ISO 527	MPa	2400
Stress at Yield	ISO 527	MPa	43
Strain at Yield	ISO 527	%	2.2
Flexural Modulus	ISO 178	MPa	2400
Flexural Strength	ISO 178	MPa	70
Density	ISO 1183	kg/m ³	1050

FLOWABILITY



Standard ABS

Novodur® P4XF

BENEFITS:

VALUE PROPOSITION

- Faster manufacturing
- Reduced wall thickness
- Higher surface quality
- Reduced molded-in stress
- Energy saving solution

FOCUS APPLICATIONS

- Large housing parts
- Parts produced in multi-cavity tools
- Housings of electronics applications requiring increased assembly space

