

INEOS[®] Novodur Ultra 4255

Novodur Ultra 4255 combines high impact strength at room as well as at low temperature, 100 % ductility at -30 °C, high heat resistance and a best in class flowability. Low temperature ductility, High impact strength, High heat resistance, Good flowability, Low emission. Applications: Door panel, Lower seat trim, Center and overhead console, Glove box door and frame
Information provided by Styrolution.

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183

Melt Flow	17 g/10 min @Load 5.00 kg, Temperature 260 °C	17 g/10 min @Load 11.0 lb, Temperature 500 °F	Volumetric; cm ³ /10 min; ISO 1133
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Mechanical Properties	Metric	English	Comments
Puncture Resistance	4600 N @Temperature -30.0 °C	1030 lb (f) @Temperature -22.0 °F	Maximum force, FM-Penetration Test; ISO 6603-2

Ball Indentation Hardness	97.0 MPa	14100 psi	ISO 2039-1
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Tensile Strength, Yield	47.0 MPa	6820 psi	ISO 527
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Elongation at Break	>= 30 %	>= 30 %	ISO 527
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Elongation at Yield	4.1 %	4.1 %	ISO 527
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Tensile Modulus	2.10 GPa	305 ksi	ISO 527
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Flexural Strength	15.0 MPa @Temperature 110 °C	2180 psi @Temperature 230 °F	ISO 178
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	70.0 MPa @Temperature 23.0 °C	10200 psi @Temperature 73.4 °F	ISO 178
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Flexural Modulus	0.700 GPa	102 ksi	ISO 178
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	2.40 GPa	348 ksi	ISO 178
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Charpy Impact, Notched	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
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	5.50 J/cm ² @Temperature -30.0 °C	26.2 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
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Puncture Energy	38.0 J @Temperature -30.0 °C	28.0 ft-lb @Temperature -22.0 °F	Energy to Maximum Force, EP- Penetration Test; ISO 6603-2
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	103 °C	217 °F	annealed 4 hours at 80°C; ISO 75
Vicat Softening Point	113 °C	235 °F	VST/B/120; ISO 306

