

PULSE A35-105

Engineering Resins

PULSE* A35-105 engineering resins give exceptional impact strength even at low temperatures and have a high heat distortion temperature.

Applications

PULSE A 35-105 is used in a wide range of applications where a balance of low temperature toughness, high heat distortion, and easy processing are required.

Some examples are automotive instrument panels, automotive interior/exterior trim, small appliance, and electrical applications.

Properties ⁽¹⁾	Test Method			Value
	ISO	ASTM	DIN	
Mechanical Properties				
Tensile strength at yield (5 mm/min), MPa	R 527			52
at break (5 mm/min), MPa	R 527			50
Elongation at break (5 mm/min), %	R 527			> 80
Tensile modulus, MPa	R 527			2200
Flexural strength, MPa	178			82
Flexural modulus (3 points), MPa	178			2100
Charpy notched impact, kJ/m ²	23°C	R 179		35
	0°C			28
	-40°C			20
Izod notched impact, kJ/m ²	23°C	R 180		70
	-40°C			50
Ball indentation hardness, MPa			53 459	105
Thermal Properties				
HDT Method A = 1.82 MPa (unannealed), °C	74 A			105
	B = 0.46 MPa (unannealed), °C	75 B		126
Vicat softening point (120 °C/h, 1 kg), °C	306 A			142
	(50 °C/h, 5 kg), °C	306 B		122
Coefficient of linear thermal expansion α (0 to 80°C), mm/mm/°C (10 ⁻⁵)		D-696		7.5–8
Thermal conductivity λ , W/(m·°C)		C-177		0.2
Flammability Ratings				
Flammability rating (1.6 mm), UL-94				HB (1)
Oxygen index, %		D-2863		20
Other Properties				
Density, g/cm ³	R 1183 B			1.12
Water absorption, %	R 62			0.2–0.6
Shrinkage, %		D-955		0.3–0.7
Processing				
Melt flow rate (230°C/3.8 kg), g/10 min	1133			3
				12
				17
Melt temperature range (recommended), °C				260–290
Mould temperature range (recommended), °C				70–90

(1) Dow test data

Note: The values presented are typical laboratory averages from coloured material. They are intended as guides only and are not sales specification limits.

