

Technical Data Sheet

Polyman ABS K2086 CR UV WHI80730



Acrylonitrile Butadiene Styrene

Product Description

Crack resistant ABS

Regulatory Status

For regulatory compliance information, see *Polyman* ABS K2086 CR UV WHI80730 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	Europe
Processing Method	Injection Molding
Attribute	Crack Resistant
Resin ID	ABS

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	16	cm ³ /10 min	ISO 1133
Density, (Method A)	1.10	g/cm ³	ISO 1183
Mechanical			
Flexural Strain at Flexural Strength	4.4	%	ISO 178
Tensile Stress at Yield, (Type 1A, 50 mm/min)	47.6	MPa	ISO 527-2
Flexural Modulus	2550	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.5	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2640	MPa	ISO 527-1
Flexural Stress	68.7	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	16	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	9.2	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	97.0	°C	ISO 306
(A (10N), 50 °C/h)	106	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	94.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	82.0	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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