Technical Data Sheet

Alathon 9307TC

High Density Polyethylene

Product Description

Alathon 9307TC is a bimodal, high molecular weight, high density polyethylene resin with excellent processing characteristics. 9307TC is selected by customers for demanding conduit and corrugated pipe applications.

- ASTM D3350 Cell Classification: **PE445560**

Regulatory Status

For regulatory compliance information, see *Alathon* 9307TC Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Not Promoted
Availability	North America
Application	Conduit; Corrugated Pipe
Market	Industrial, Building & Construction; Pipe
Processing Method	Pipe

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate					
(190 °C/2.16 kg)	0.07	g/10 min	0.07	g/10 min	ASTM D1238
(190 °C/21.6 kg)	16	g/10 min	16	g/10 min	ASTM D1238
Density, (23 °C)	0.949	g/cm³	0.949	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (2% Secant)	141000	psi	972	MPa	ASTM D790
Tensile Stress at Break	4970	psi	34.3	MPa	ASTM D638
Tensile Stress at Yield	3560	psi	24.5	MPa	ASTM D638
Tensile Elongation at Break	>600	%	>600	%	ASTM D638
Environmental Stress Crack Resistance					
F_{50} (10% Igepal®, Cond B)	>1000	hr	>1000	hr	ASTM D1693
F_{50} (100% Igepal®, Cond B)	>1000	hr	>1000	hr	ASTM D1693
Notched Constant Ligament Stress, (10% Igepal, 50 °C, 600 psi stress)	>4000	hr	>4000	hr	ASTM F2136
PENT, (2.4 MPa, 80 °C, Air)	>100	hr	>100	hr	ASTM F1473
Thermal					
Deflection Temperature Under Load, (66 psi, Unannealed)	154	°F	68	°C	ASTM D648
DSC Induction Temperature	500	°F	260	°C	ASTM D3350
Oxidative-Induction Time, (200 °C)	100	min	100	min	ASTM D3895

Manufacturer website: https://www.lyondellbasell.com/en/

Notes

Igepal® is a registered trademark of Rhodia.

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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