

Technical Data Sheet

Corene 3940 719 SAHARA TANBWN



Polyethylene, Linear Medium Density

Product Description

Corene 3940 is a linear medium density polyethylene developed for rotational molding applications. The resin is fully UV stabilized and suitable for general purpose applications. It has a good balance of properties such as toughness and stiffness.

Regulatory Status

For regulatory compliance information, see *Corene* 3940 719 SAHARA TANBWN [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Latin America; North America
Processing Method	Rotomolding
Attribute	Ablation Resistant; Good Processability; Good Stiffness; Good Toughness; UV Resistant
Forms	Pellets; Powder
Appearance	Black; Colors Available; Natural Color
Additive	UV Stabilizer
Application	Containers; General Purpose; Outdoor Applications; Pallets; Tanks

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	3.4 to 4.0	g/10 min	ASTM D1238
Density	0.939 to 0.941	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (50 mm/min)	20.0	MPa	ASTM D638
Environmental Stress Crack Resistance			
(10% Igepal)	50.0	hr	ASTM D1693
(100% Igepal)	>1000	hr	ASTM D1693
Flexural Modulus, (1.3 mm/min)	834	MPa	ASTM D790
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	77	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>258	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	40.6	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	62	°C	ASTM D648

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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