Velogy.
Aert van Nesstraat 45,
3012 CA Rotterdam, The Netherlands

Technical Data Sheet : AdvyForm R0740

Mini-random copolymer

Product Description

The polymer grade is a nucleated high crystallinity mini-random copolymer for extrusion, thermoforming and film applications. It features high stiffness like stiff homopolymer with improved transparency, high gloss and good dimensional stability at elevated temperature. Typically used for films and sheets, transparent food containers, containers for high temperature filling and articles where high gloss and high stiffness are required.

Detailed information on health and safety, regulatory compliance status, and any supported, prohibited, or restricted applications is available in the Product Regulatory Summary (PRS) and the applicable Safety Data Sheet (SDS).

General

Application	Clear Containers; Thermoformed Food Containers
Market	Rigid packaging
Processing Method	Sheet and Profile Extrusion; Thermoforming
Attribute	High Stiffness; High Transparency; mini-random copolymer; Nucleated
Internal reference	1Q179, BEN15416
Revision	Version 3 ; October 12, 2026

Properties	Typical Value	Unit	Method
Polymer properties			
Density	0.9	g/cm^3	ISO 1183-1
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	3	g/10 min (dg/min)	ISO 1133-1
Mechanical properties			
Charpy Impact Strength			
at 23 °C, Type 1, Edgewise, Notch A	5.5	kJ/m^2	ISO 179
Tensile Modulus			
at 23 °C	1750	MPa	ISO 527-1, -2
Tensile test			
Strain at Yield	8	%	ISO 527-1, -2
Stress at Yield at 23 °C and 50 mm/min	38	MPa	ISO 527-1, -2
Thermal properties			
Vicat Softening Temperature			
(A/50)	151	°C	ISO 306

Storage and Handling

The polymer grade is supplied in 25 kg bags, octabins, or bulk containers designed to protect the material from contamination. During storage, the resin should be protected from direct sunlight, temperatures above (<50 °C), and high atmospheric humidity. Prolonged exposure to sunlight, elevated temperatures, or high humidity may accelerate material degradation, reduce storage life, and adversely affect the quality of both the resin and its packaging. If the material is stored under conditions involving significant temperature fluctuations and high humidity, moisture may condense inside the packaging. In such cases, it is recommended to dry the resin before use and to ensure that the material remains completely dry to achieve optimal processing performance. Unfavorable storage conditions may also intensify the resin's slight characteristic odor.

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Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application. In cases where higher temperatures are required, please contact your appropriate technical contact for support.

Company Information

For further information regarding the Velogy, please visit http://www.velogy.com
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